XC Series Owner’s Handbook

BARINA

HOLDEN

www.holden.com.au

Owner's Name ....

Address ....

Town ....

State.........................Postcode ....

(17 character I.S.O.V.I.N.) Vehicle Identification Number ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Model Name ....

Reg. No..........................Eng. No. ....

Odometer Reading ....

Date of Purchase ....

Vehicle Identification Certificate

Selling Dealer's
Stamp & Signature ....

Holden Ltd. A.C.N. 006 893 232 (hereinafter Holden).

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this car. Also, if less than three years old, this car will qualify for Roadside Assistance, refer Chapter 9. If you have recently changed your address, or name, or purchased this car second-hand, please help us to help you by taking a few minutes to fill in and mail the form on the third page of this handbook.

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Part No. 92104298
December 2000 (Barina, XC print 1)

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We thank you for choosing Holden and want to assure you of our continuing interest in your motoring pleasure and satisfaction and compliment you on your choice.

This handbook applies to all the current Barina models. Therefore, due to different models and options, you may find reference in this Handbook to some equipment not installed in your own car.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

CHANGE OF ADDRESS OR OWNERSHIP

Please fill in the form below if you have changed your name, address, bought the car second-hand or have become the new driver.

Holden requires these details in order to contact the operator in the event of a safety recall and to keep the initial 3 year Roadside Assistance details up to date (refer Chapter 9).

Please mail to the address on the back of this page.

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Title: (Mr, Mrs, Miss, Ms, etc.)

First name in full or initials

Surname or Name of Company/Institution/Government Department

Address

Street/box

City/Town

State

Postcode

Car registration number

Holden Number (see Chapter 8)

ISOVIN Number (see Chapter 8)

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
Holden Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

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CHAPTER 1

Dashboard

The following page illustrates the dashboard, identifying the gauges, warning lights, controls and switches. Page reference numbers are listed next to each item.

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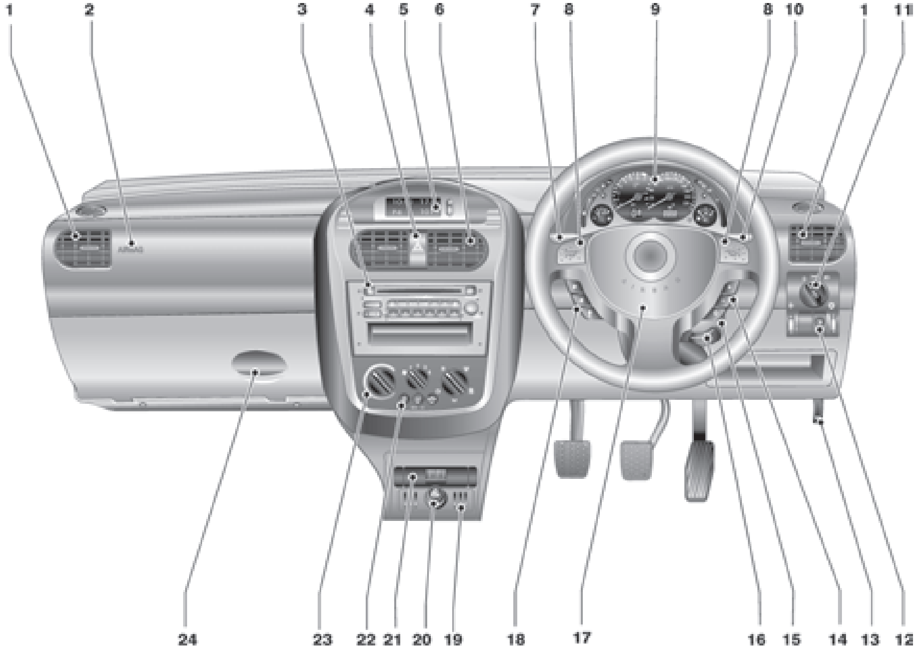
LAYOUT



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TILT STEERING AND HORN

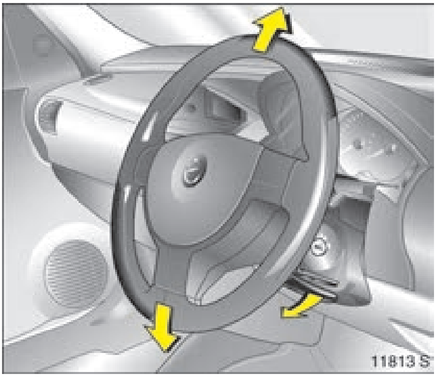
Tilt steering (if fitted)

The lock lever is located directly beneath the ignition lock.

Move the lock lever downwards.

Grasp the steering wheel and move as required. It can be moved up or down.

When in position, move the lock lever back up as far as it will go. "Jiggle" the steering wheel to ensure it has locked securely before driving.

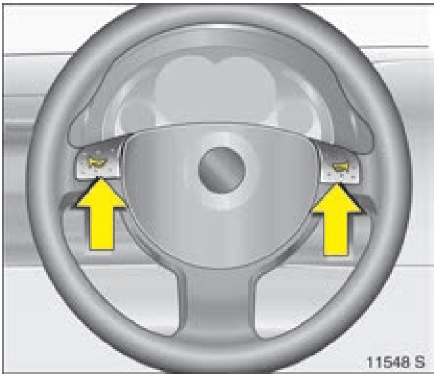


CAUTION:

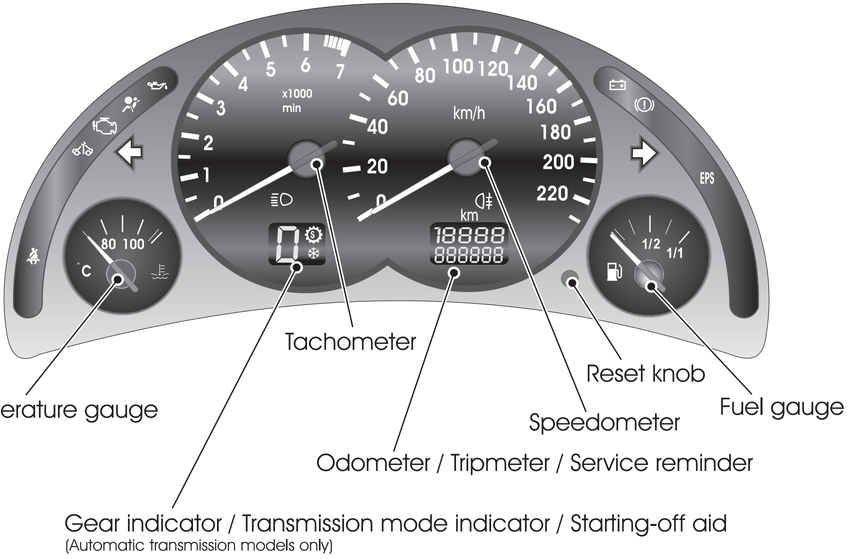
As with all the other driver position controls, do not attempt to adjust the steering wheel while driving.

Horn

The horn is activated by pressing the 📯 symbol, on either side of the steering wheel.



GAUGES


Tachometer
Reset knob
Fuel gauge
Temperature gauge
Speedometer
Odometer / Tripmeter / Service reminder
Gear indicator / Transmission mode indicator / Starting-off aid
(Automatic transmission models only)

Speedometer

The speedometer indicates vehicle speed in kilometres per hour.

Odometer / tripmeter / service reminder

A small window in the speedometer is used for the odometer, the tripmeter, and the service reminder. The odometer and the tripmeter can be made to appear for a few seconds when the ignition is OFF by pressing the reset knob.

The **odometer** records kilometres travelled since the car was built.

The **tripmeter** (above the odometer) records kilometres travelled on a particular trip. Press the reset knob when the ignition is ON to zero the reading.

The **service reminder** will only show for a few seconds when the engine is started if the car is within 500 km or one week of the next service. The display will then show "InSP", refer to Chapter 12 Servicing.

Tachometer

The tachometer shows engine speed in revolutions per minute (r.p.m.) times 1000. Operation in the red zone (above 6,500 r.p.m.) may cause serious engine damage.

Gear indicator / transmission mode indicator / starting-off aid

These features are related to the operation of the automatic transmission. Refer to Chapter 4 Driving.

GAUGES cont.

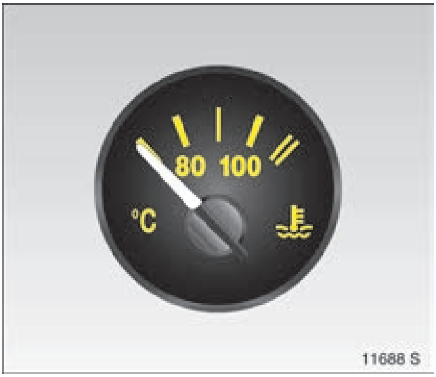
Engine temperature gauge

NEEDLE IN ZONE AT LEFT = Engine has not reached operating temperature.

NEEDLE BETWEEN ZONES = Engine is at normal operating temperature.

NEEDLE IN ZONE AT RIGHT = Engine temperature is too high. Stop the car as soon as it is safe to do so. Refer to Chapter 6 for further information.

The engine temperature gauge shows the coolant temperature only if the coolant level is adequate. Refer to Chapter 7 for information about checking the coolant level.



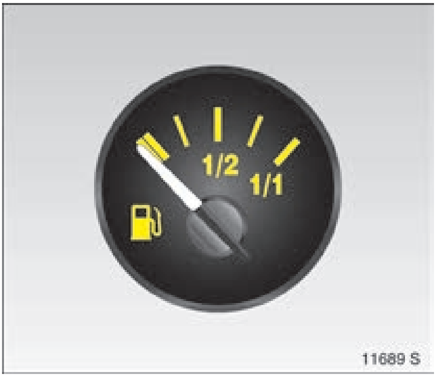
Fuel gauge

The fuel tank has a capacity of 45 litres.

When the ⛽ symbol on the fuel gauge lights up, the fuel level is down to the reserve area. If the fuel tank is almost empty the symbol will begin to flash.

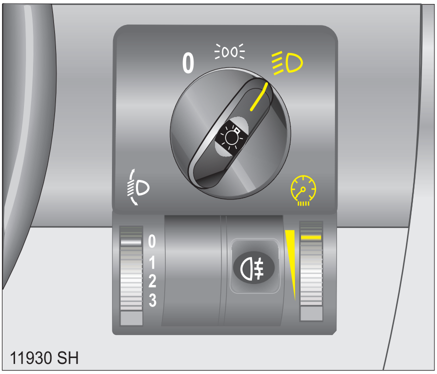
Refuel before the ⛽ symbol lights up. Never allow the fuel tank to become empty.

Refer to Chapter 5 for information about refuelling.



Instrument lighting

When the headlights are switched on, adjust instrument brightness by turning the thumb wheel located on the lower right-hand side of the headlight switch.



WARNING LIGHTS

Sports/economy drive (automatic transmission only)
Lights up for a few seconds when the ignition is switched on and when "Sports Drive" is selected. Transmission then shifts at higher engine speeds, refer to Chapter 4.

Automatic transmission fault
Lights up for a few seconds when the ignition is switched on. If it lights up during driving a fault has occurred. Stop the car, switch the engine off and restart. If the light continues to flash, manually change gears using the T-bar and consult a Holden dealer.

Battery
Lights up when ignition is switched on. Goes out when the engine is started and engine speed is increased above idle speed.

If it lights up during driving then the battery is not being charged properly (engine cooling may also be affected). You should see a Holden Dealer as soon as possible.

Brakes, hydraulic clutch
Lights up for a few seconds when ignition is switched on. It will go out after a few seconds unless the park brake is applied and/or the brake/clutch fluid levels are low.

If it lights during driving and the park brake is *not* applied you should stop the car as soon as possible and consult a Holden Dealer.

Check engine
Your car is fitted with an Electronic Engine Management System. The check engine symbol indicates when system service is required. The symbol lights when the ignition is switched on and goes out shortly after the engine starts to run. If the symbol lights up when driving, service to the Engine Management System may be required. Although the car may still be drivable and not require towing, see your Holden Dealer as soon as possible, as continued driving could affect fuel consumption, engine performance or may damage the catalytic converter.

However, if the symbol *flashes* and the engine cannot be started, turn the ignition off for at least 2 seconds before attempting to start the engine again.

Emissions
Your car is fitted with an emission monitoring system. The emission warning symbol indicates when system service is required. The symbol lights when the ignition is switched on and goes out shortly after the engine starts to run.

If the symbol lights up when driving, service to the emission system may be required. Although the car may still be drivable and not require towing, see your Holden Dealer as soon as possible.

However, if the symbol *flashes* while driving, reduce speed until the light stops flashing and take the car to a Holden Dealer as soon as possible.

Low fuel
Lights up when the fuel gauge enters the red zone and comes on earlier when driving around bends. If the light flashes the fuel is just about to run out.

WARNING LIGHTS cont.

Oil pressure

Lights up when ignition is switched on and goes out after the engine is started. It can light up intermittently when idling if engine is hot, but must go out when engine speed is increased.

If illuminated during driving, immediately stop the car and switch off the engine. Check the engine oil level. Do not drive with this light showing. If the oil level is normal, have the system checked at your nearest Holden Dealer.

Starting-off aid (automatic transmission only)

Lights up when the starting-off aid is switched on, refer to Chapter 4.

Rear fog lights

Lights up when the rear fog lights are switched on.

High beam

Lights up when headlight high beams are in use or flashed.

Turn signal indicators

Flash when turn signal lights are on. If the symbol flashes rapidly a turn signal light bulb has failed.

Seat belt

The belt warning light is displayed for a short time when the ignition is first switched ON. The warning is designed to remind occupants to fasten their seat belts.

Air bag and seat belt pre-tensioners

Lights up for a few seconds when the ignition is switched on. If it does not go out or if it comes on during driving, there is a defect in the air bag/seat belt pre-tensioner system and they may not function correctly, especially in an accident. You should consult your Holden Dealer as soon as possible.

EPS

Electronic power steering

The EPS (Electronic Power Steering) light remains on when the ignition is switched on and goes out after the engine is started. If it lights up during driving a fault has occurred in the Electronic Power Steering system. You may continue to drive but greater effort will be required to turn the steering wheel. Have the system checked at your nearest Holden Dealer.

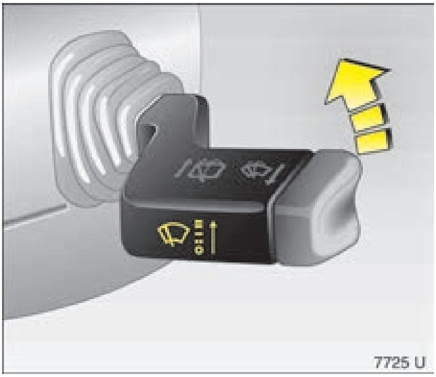
WIPERS AND WASHERS

Wipers and washers are operational when the ignition is ON.

Windscreen wipers

Move the lever upwards.

=	fast
—	slow
- -	intermittent
O	off



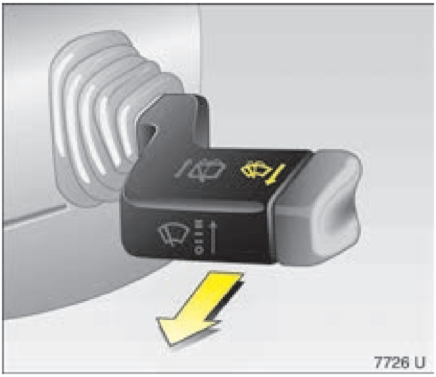
Setting intermittent wipe interval between 2 and 15 seconds:

- Set lever to intermittent
- Set lever to off
- Wait for number of seconds interval you wish to set
- Set lever back to intermittent

The selected intermittent interval is stored until changed again or until the ignition is switched off. When the ignition is switched on, the interval is preset to 7 seconds.

Windscreen washer

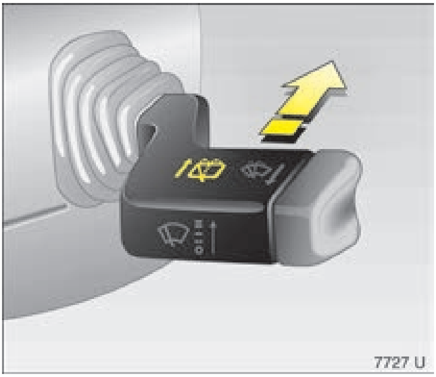
Never operate with wipers on dry glass, as this will damage the rubber. To spray washer fluid onto the windscreen pull the lever toward you. At the same time the wipers are operated for several sweeps.



Tailgate washer

Push the lever away from you to the first ‘stop’ position to turn on the rear wiper. To turn on the rear washer, push the lever further and hold as long as required.

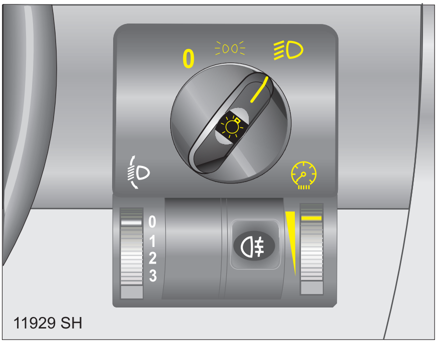
When the lever is in the first ‘stop’ position, the rear wiper will operate at an intermittent speed.



EXTERIOR LIGHTS

Light switch

0	off
≡DC≡	parking lights
≡D	headlights and parking lights
☼	press the light switch to turn on and off the interior light
◔	turn the thumb wheel to adjust instrument illumination



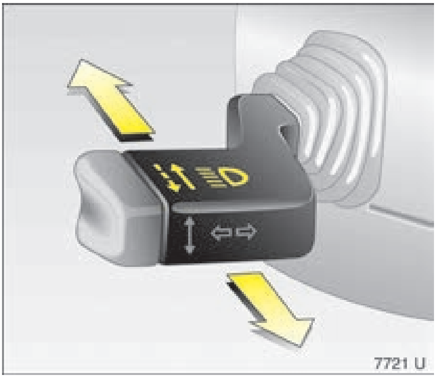
High/low beam

When the headlights are switched on, push the lever away from you, then release. The headlights will change from low to high beam. Pull the lever back towards the steering wheel to return to low beam. When the high beams are in use a symbol on the instrument panel will glow.

It is also possible to flash the high beams for signalling purposes (even if the headlights are off) by pulling the lever towards you. The lights will remain in high beam as long as the lever is held towards you.

Leaving the headlights switched on without the engine running will eventually flatten the battery.

A warning chime will remind you to switch off the headlights when leaving the car.



Headlight range adjustment

The headlight range may be adjusted to suit the current load in the car by selecting 0, 1, 2 or 3 when the headlights are ON.

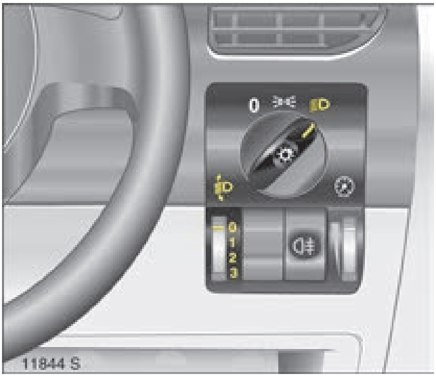
Correct adjustment of the headlight range reduces dazzle for other road users.

0 = Front seats occupied

1= All seats occupied

2 = All seats occupied and load in the luggage compartment

3 = Driver's seat occupied and load in the luggage compartment



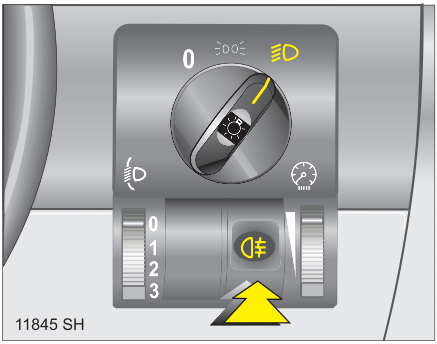
EXTERIOR LIGHTS cont.

Rear fog lights

The push button for the rear fog lights is located below the headlight switch beside the instrument dimming switch.

Push the button to switch on or off. The symbol in the instrument panel glows when the fog lights are working.

Check your State's Laws regarding use of fog lights when driving.

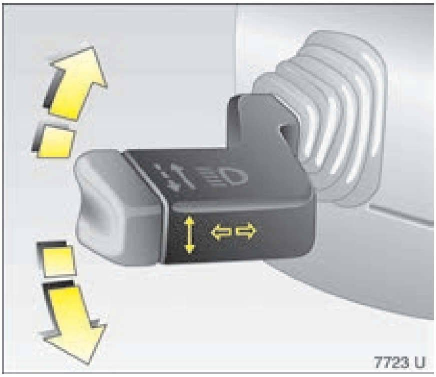


Turn signals

Push the lever up or down (as required) to signal a turn.

In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold. The lever will return to the neutral position when released.

To signal a turn, push the lever in the same direction that you intend to turn the steering wheel.



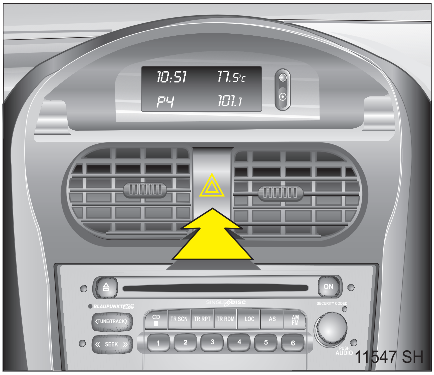
Hazard warning flasher

Push the button to switch on or off.

Use the hazard warning flasher to warn other drivers if your car becomes a traffic hazard, day or night.

When the hazard warning system is on, the button’s symbol will flash, in unison with the external turn signals.

Use of the hazard warning flashers while the car is moving is illegal in some States.



RADIO / CD PLAYER

Radio / CD player operation

The radio will stay ON until the key is removed from the ignition. Therefore, remember to remove the key when leaving the car for any length of time or you may flatten the battery.

The radio can also be heard when the key is removed from the ignition by pressing the ON button. In this case, the radio will automatically switch off after one hour.

Refer to the audio instructions for operating your radio/compact disc player.

Important compact disc care tips

- Handle the CD by its edge and avoid touching the playing surface.
- Do not stick paper or tape on either surface.
- Do not write on either surface.
- Do not expose the CD to direct sunlight or a heat source such as a heater/demister outlet.
- Do not use solvents to clean a CD. Use commercially available CD cleaning products.

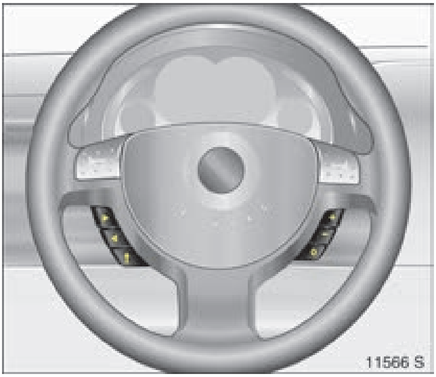
Mobile phones and CB radios

Mobile phones and CB radio equipment which use an integrated antenna, may temporarily affect the car's electronics when used inside the car, due to the interference created when transmitting.

Therefore, only mobile phones and CB equipment that use an antenna fitted to the outside of the car should be used.

Steering wheel mounted audio controls

The audio system functions can be operated by buttons mounted on the left and right side of the steering wheel. The audio system is operated as described in the operating instructions supplied.

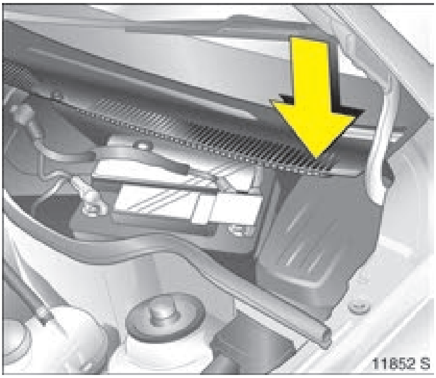


VENTILATION

Ventilation air inlet

The car features a flow through ventilation system for your comfort. Under reasonable conditions, it shouldn't be necessary to open the windows at any time.

Outside air is drawn into the car through the opening at the base of the windscreen. Do not allow this opening to become clogged with debris, such as leaves or snow.

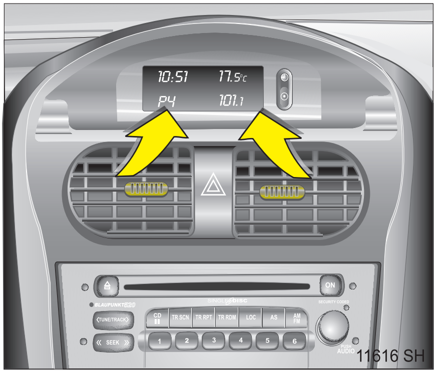


Face level centre vents

The demist and foot vent outlets are not adjustable as they direct air to the windscreen, windows or feet in the best possible way.

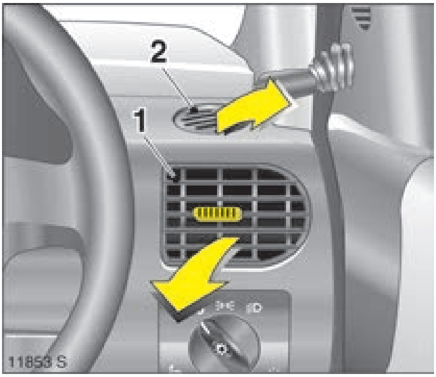
However, the face level centre vents are adjustable. They can be swivelled and tilted as required. They can also be completely shut off by sliding the adjuster towards the centre of the dashboard.

When the temperature dial is set to the centre position, air from the centre vents is cooler than the air emitted from the side vents.



Face level side vents

The face level side vents (1) can be swivelled and tilted as required. They can also be completely shut off by sliding the adjuster towards the centre of the dashboard. When the vent dial is set to demist, air will be directed through the demist vents (2) onto the windscreen and door windows.

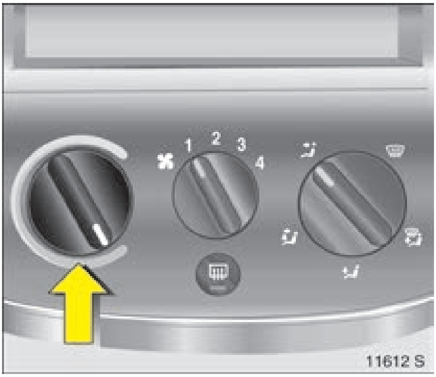


VENTILATION AND HEATING

Temperature dial

Anti-clockwise = cool

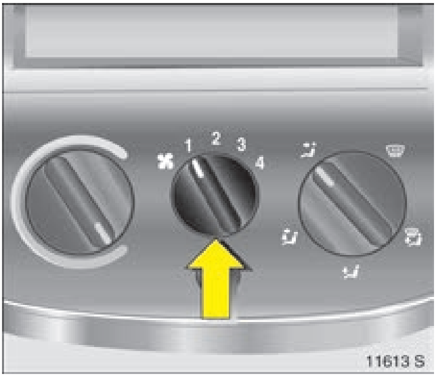
Clockwise = warm



Fan dial

OFF plus four fan speeds are provided.

Note that the rate of air flow is determined by car speed, as well as by the fan.



Vent dial

air from demist vents

air from demist and foot vents

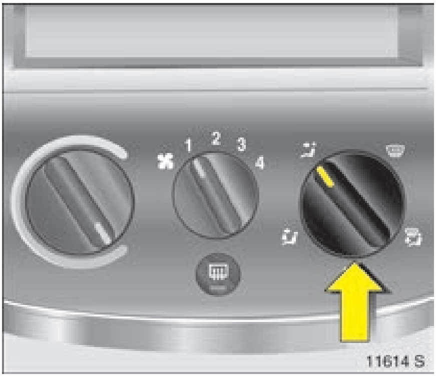
air from foot vents

air from face and foot vents

air from face level vents

To provide for individual requirements, the switch can be set to any intermediate position.

Note that air will come from the face vents with all vent dial positions, provided the vents are open.

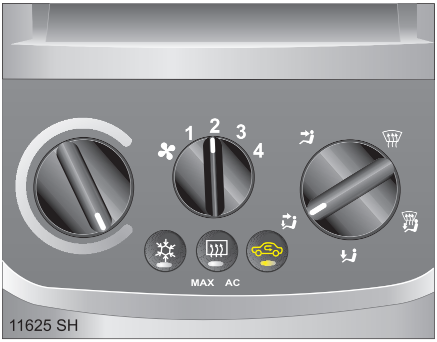


VENTILATION AND HEATING cont.

Air intake button

Push the button to switch between recirculated and outside air. The light in the switch glows when recirculate is selected.

When following another car on dusty roads, or to prevent exhaust fumes or odours entering your car, press the button to the recirculation position (light in switch showing). However, when driving on unsealed roads but where the dust is not airborne, press the button to the fresh air position. All windows must be closed and the fan preferably on a high speed so that positive air pressure in the car will prevent dust being sucked in.

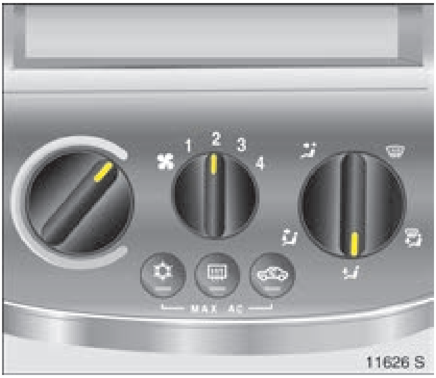


Recirculate reuses interior air and is therefore NOT recommended for long periods of time. If occupants are smoking, it is recommended that the recirculate position NOT be used, as the tobacco smoke adheres to the air ducts and will produce stale smelling air.

Heating

- air conditioning switch OFF (if fitted)
- air intake button to fresh air position
- temperature dial as required
- fan as required, but not full speed
- vents dial to "foot" vents

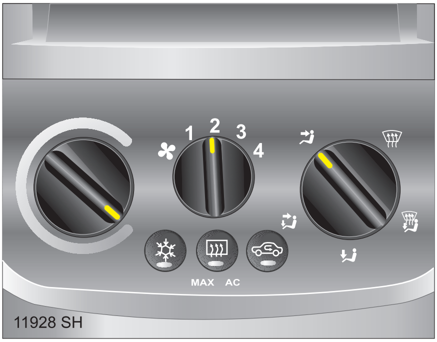
Note that heat will not be available until the engine warms up. Therefore, keep vents closed until the engine has warmed up, then direct vents towards side windows (if required) to aid demisting.



Ventilation without using air conditioning

To conserve fuel when air does not require cooling.

- air conditioning switch OFF (if fitted)
- air intake button to fresh air position
- turn temperature dial to cold
- fan speed as required
- set vents dial to "face" level vents
- open all vents



AIR CONDITIONING (if fitted)

Air conditioning not only cools the air but also removes moisture. If the temperature dial is moved away from extreme cold, the air will then be reheated before entering the cabin.

The air conditioner is switched on by pushing the button with the snowflake symbol. A light in the switch will glow when the air conditioner is operating. The fan automatically runs at low speed, which can be increased if required.

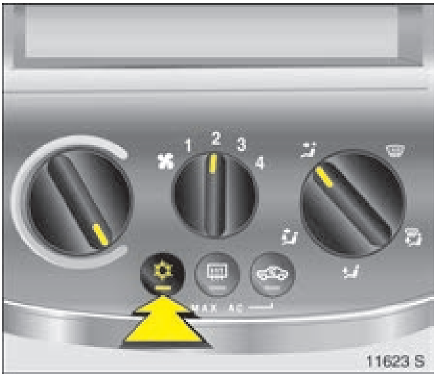
The air conditioning system operates only in the temperature ranges in which it is required; it switches off automatically when the outside temperature is below + 4° C.

To conserve fuel, switch off the air conditioning in cold weather. However, once a month (with the engine running) switch the air conditioner on for 5 to 10 minutes, even in Winter. This will lubricate the air conditioning system.

At least one vent must be open when the air conditioning is ON, so that the evaporator does not ice up due to a lack of air movement.

Normal cooling

- air conditioning switch ON
- air intake button to fresh air position
- turn temperature dial to cold
- fan speed as required
- set vents dial to "face" level vents
- open all vents

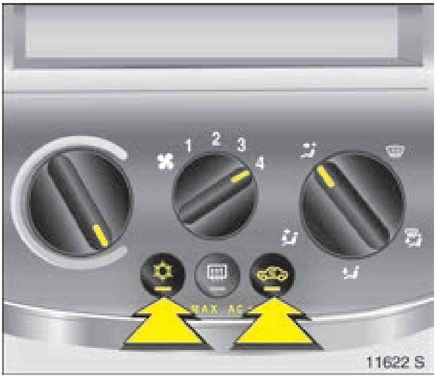


Maximum cooling

For maximum cooling in hot weather or when the car has been left in the sun, open the windows briefly so that warm air can escape quickly.

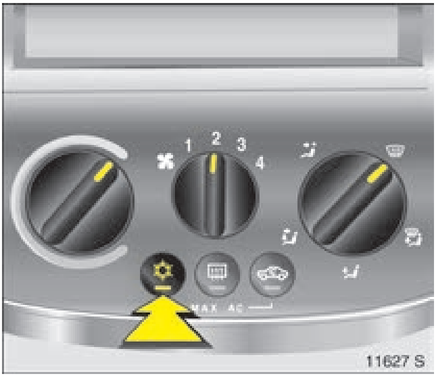
- air conditioning switch ON
- air intake button in recirculate position
- turn temperature dial to cold
- fan to highest speed
- set vents dial to "face" level vents
- open all vents

DO NOT leave recirculation on for too long as no outside air is drawn into the car; cabin air is re-circulated and may become stale.



DEMISTING

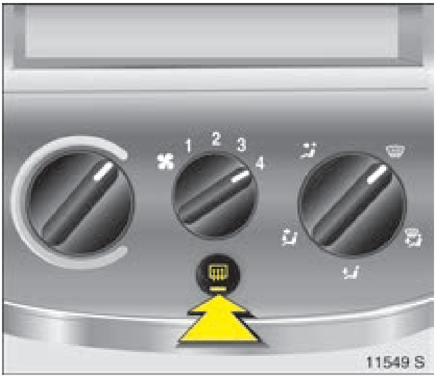
Windscreen demisting



- air conditioning switch ON (if fitted)
- air intake button to fresh

  Note: air intake will automatically switch from recirculation to fresh air when vents dial is rotated to demist mode.
- temperature dial to hot
- fan to speed 2 or more
- vents dial to "demist" or "demist and foot" level vents
- close all dash vents

Rear window demisting



Demisting is provided for the rear window. Press the switch to turn demisting on or off.

A light in the switch glows when demisting is operating.

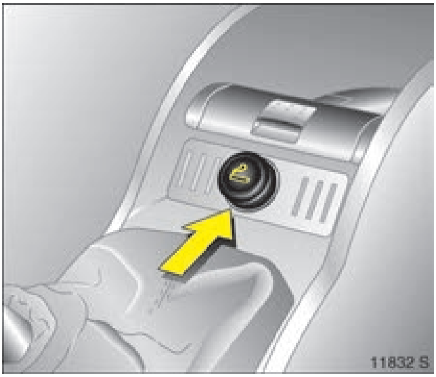
Demisting operates when the ignition is ON.

Demisting will automatically switch off after approximately 15 minutes.

ASHTRAYS AND CIGARETTE LIGHTER

Cigarette lighter

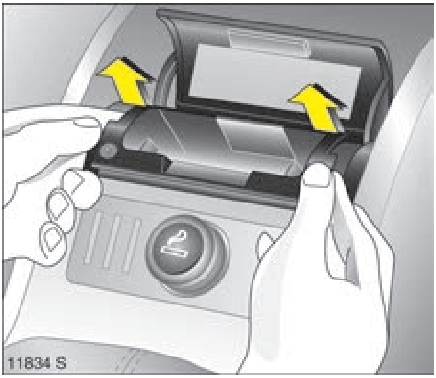
The cigarette lighter works when the ignition is switched on. Push the cigarette lighter inwards to heat. The lighter will automatically pop out when heated and ready to use.



Front ashtray

To open, lift the front of the cover upwards.

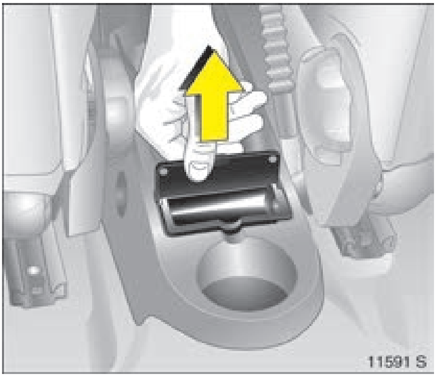
To empty, open the ashtray cover beyond its resistance point which will cause the ashtray insert to lift from its installed position. To remove the ashtray completely, pull up evenly on both sides of the ashtray insert.



Rear ashtray

To open, lift the front of the cover upwards.

To empty, open the cover and pull the ashtray upwards by its cover.

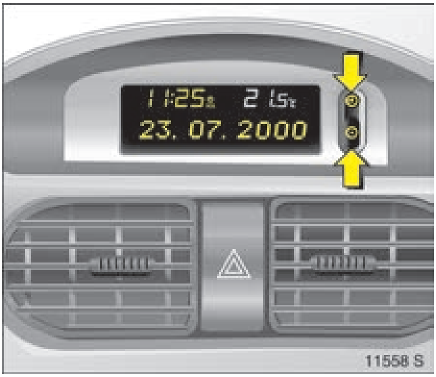


TRIPLE INFORMATION DISPLAY

Display shows *time, date* and *outside temperature* when the ignition is ON. When the radio is playing the *date* display is replaced by *radio display.*

As with the instrument lighting, the brightness of the display can be adjusted when the parking/headlights are ON, by turning the thumb knob located below the light switch.

When the ignition is off, the display can be illuminated for approx. 15 seconds by briefly pressing one of the buttons next to the display.



Adjusting the date/time

- Turn on the ignition and switch off the radio.
- Press top button for approximately 2 seconds (day starts flashing)
  Press bottom button until day is correct.
- Press top button (months starts flashing)
  Press bottom button until months are correct.
- Press top button (years starts flashing)
  Press bottom button until years are correct.
- Press top button (hours start flashing)
  Press bottom button until hours are correct.
- Press top button (minutes start flashing)
  Press bottom button until minutes are correct.
- Press top button - clock starts at 0 seconds

If only the time is to be set, repeatedly press the top button until the hours/minutes are flashing.

Outside temperature

Caution: The road surface may be icy, even though the display indicates a few degrees above zero.

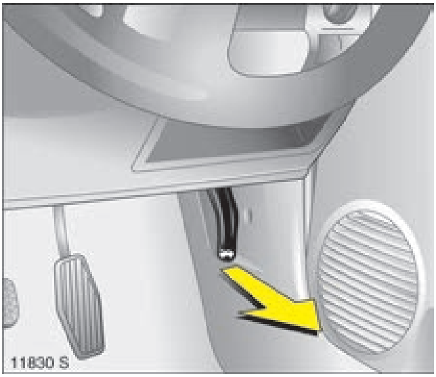
To warn the driver that the road surface may be icy, a snowflake symbol displays when the temperature drops below 3° C.

"--.-° C" or an "F" on the display indicates a fault in the system and you should see your Holden Dealer.

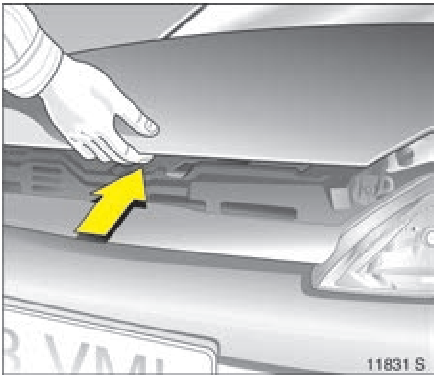
Note that a fall in temperature is indicated immediately, and a rise in temperature after a short delay.

BONNET RELEASE

From inside the car, pull the lever towards you. This allows the bonnet to release but is prevented from opening by the safety catch.



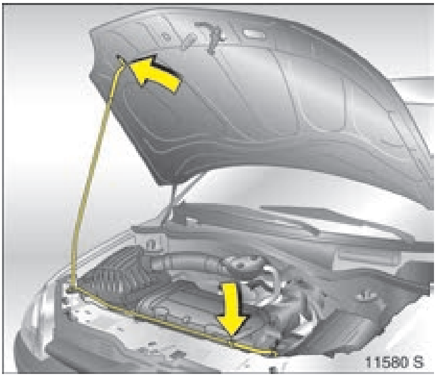
To open completely, locate the bonnet lever on the right-hand side and lift it upwards while lifting the bonnet.



Fully open the bonnet. Insert the support rod into the slot provided.

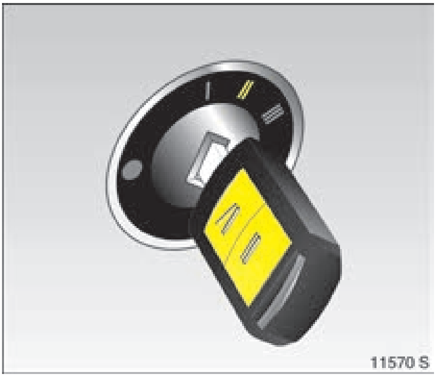
Before closing, press support rod firmly into the holder and lower the bonnet gradually to be finally dropped by its own weight.

Always check that the bonnet is properly closed and that the release lever inside the car has returned to its original position.



IGNITION SWITCH

Ignition



- *LOCK:* Ignition off, steering locked when key is removed.

I *OFF:* Steering unlocked, ignition off.

II *ON:* Ignition on.

III *START:* Start the engine.

Release steering column lock

To release the lock, move the steering wheel slightly and turn the key to position **I**.

Lock steering column

To lock the steering column, withdraw the key in position ● .

CAUTION:

Do not turn the engine off while the car is moving. Power assisted equipment such as the brakes which are operated by the engine, will be ineffective. Never remove the key while the car is moving, as this will lock the steering wheel.

Audible warnings

An audible warning will remind you when:

– you are leaving the car and have not removed the ignition key (single tone).

– you are leaving the car and have left the headlights on (dual tone).

NOTES

CHAPTER 2

Locks

Page

2-2 Keys and locks
2-2 Child safety rear door switch
2-3 Electric door locks
2-4 Door locks and deadlocking
2-6 The remote control
2-8 Tailgate

KEYS AND LOCKS

Keys

Before placing the key on your key ring, remove the key code number (if still attached) from the key. Please keep in a safe place, together with the Car Pass (a card containing information about the engine immobilizer) away from your car. Then, if your key is lost, replacements can be ordered through a Holden Dealer by quoting the key code number and providing proof of ownership.

Free turning door locks

The door lock cylinder is designed to free turn if it is forcefully rotated without the correct key or if the correct key is not fully inserted. To reset, turn the lock with the correct key until its slot is vertical, remove the key and then re-insert it. If the lock still free turns, turn the key through 180 degrees and repeat the operation.

Note that this feature is provided as a theft deterrent – to prevent the lock being forced open. The force required to make the key "free turn" reduces each time. As the force gets easier with each "free turn" please do not attempt to demonstrate or test this feature, and always remember to fully insert the key when locking and unlocking the doors.

If you have problems contact your Holden Dealer. Remember that your car is covered for the first 3 years by Roadside Assist, refer to Chapter 9.

Fuel filler release

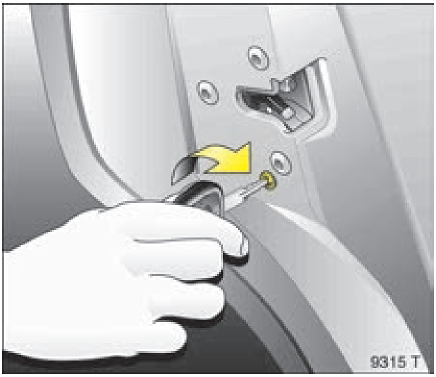
The fuel filler flap is unlocked whenever the doors are unlocked. Refer to Chapter 5 when refuelling.

Rear “child proof” door switches

Child proof switching helps prevent rear doors from being accidentally opened by small children inside the car.

The switches are provided on the rear edge of rear doors, accessible when the door is open.

Using the key, turn the switch away from the vertical position: the door cannot be opened from the inside. It can only be opened by pulling up the inside door lock button and then raising the outside door handle.



CAUTION:

For safety, check that the child proof switch is operating correctly (after setting) by trying to open the door from inside the car.

ELECTRIC DOOR LOCKS

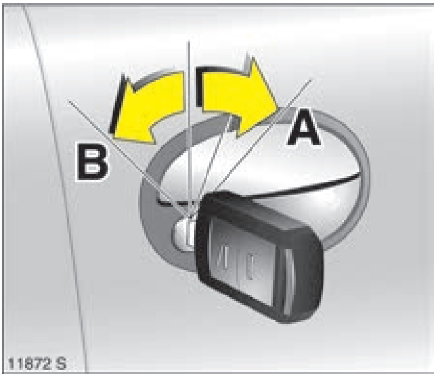
Emergency – flat battery

Unlocking and locking the driver's door in the event of malfunction of the central locking system (e.g. if the car's battery is flat).

(A) To unlock: Turn key in driver's door lock towards front of car, turning it beyond its resistance point until it will not move any further. Turn key back to vertical position and remove; raise door handle. Lock button remains in depressed position.

(B) To lock: With driver's door closed, turn key towards rear of car until it will not move any further. Turn key back to vertical position and remove.

The other doors can be unlocked and locked by operating the interior lock buttons.



Emergency – accident

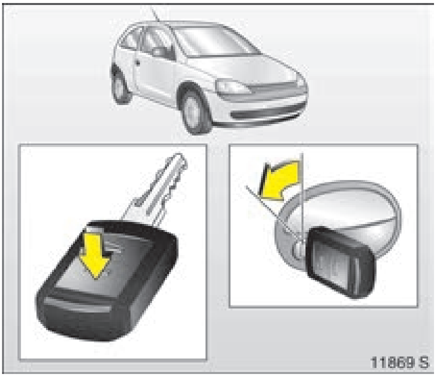
Locked doors are unlocked automatically in the event of an accident (to allow assistance from outside), provided that the ignition is not switched off.

DOOR LOCKS AND DEADLOCKING

Locking the car

Press the rear button of remote control or turn the key in driver's door. This locks the doors, tailgate and fuel tank filler flap.

The light-emitting diode (LED) in the remote control lights up and the hazard warning lights flash briefly to show that the remote control is operational.

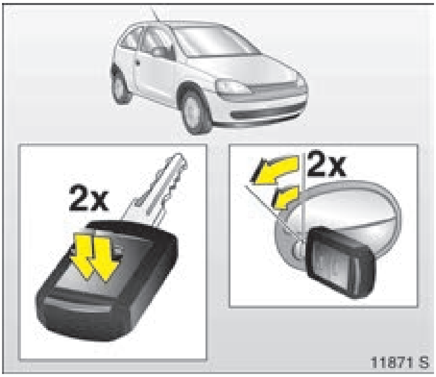


To ***deadlock*** all doors, press the rear button on the remote control again within 10 seconds after locking.

or

turn the key in driver's door lock towards rear of car again within 10 seconds after locking, then turn it back to the vertical position and remove.

Deadlocking locks all doors so that no door can be opened – even if entry is gained by breaking glass. Doors can only be unlocked from outside the car with the ignition key.



CAUTION:

Do not use deadlock if there are people in the car. The doors cannot be unlocked from inside.

To lock doors from inside

Press lock buttons.

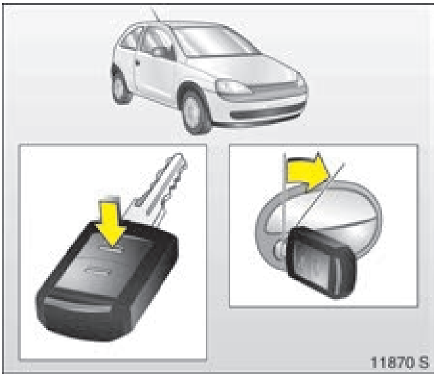
Doors are locked when the inside lock button is down and unlocked when the lock button is up.

To prevent the driver being inadvertently locked out, the lock button on the driver's door cannot be depressed when the door is open.

For safety reasons, the car cannot be locked if the ignition key is in the ignition lock.

If the driver's door is not closed properly, the central locking system will unlock again immediately after locking.

DOOR LOCKS AND DEADLOCKING cont.



Unlocking the driver's door only

Direct the remote control towards car, press the front button on the remote control unit **once**,

or

alternatively, turn the key in driver's door **once** towards the front of the car, then turn it back to the vertical position and remove. Unlocking the doors turns off deadlocking.

Unlocking all doors, tailgate and fuel filler flap

Direct the remote control towards car, press the front button on the remote control unit **twice**,

or

alternatively, turn the key in driver's door **twice** towards the front of the car, then turn it back to the vertical position and remove. Unlocking the doors turns off deadlocking.

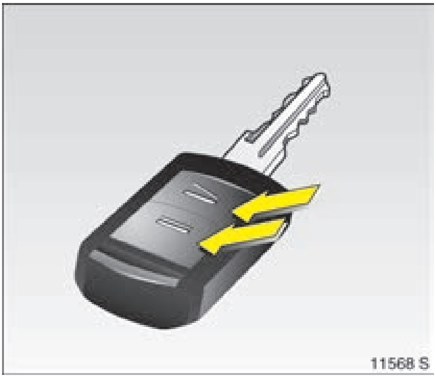
The doors, tailgate and fuel tank filler all unlock and the interior light is switched on.

Automatic re-locking

After unlocking the car using the remote control, the car will be automatically locked again after 30 seconds if a door or the tailgate has not been opened.

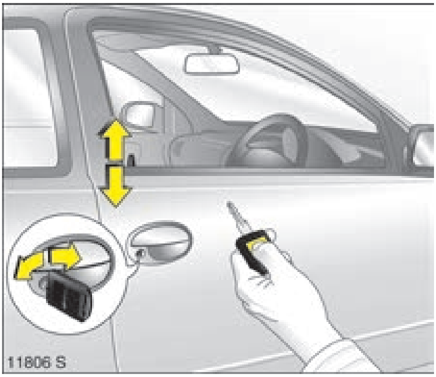
THE REMOTE CONTROL

The remote control



- The remote control is powered by a battery inside the key head. A weakening battery is indicated by a progressive "loss of range", which means you must be closer to the car when pressing the key. Originally the key should have a range of approximately 3 metres.
- Tinting the car's windows reduces the range of the key if the tinting material has a metallic film.
- Treat the remote with care; it should be protected against moisture and should not be operated unnecessarily.
- When operating correctly, the light in the remote control lights up and the hazard warning lights on the car flash briefly.

Remote control trouble-shooting



If the central locking system cannot be operated with the remote control, this may be due to one of the following reasons:

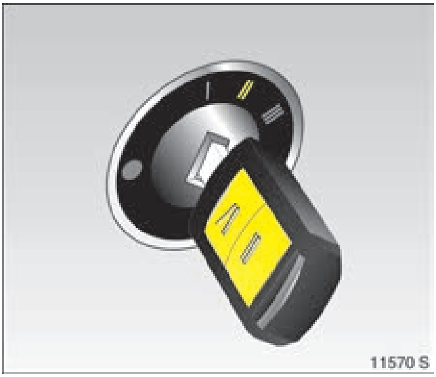
- The range of the remote control has been exceeded. Move closer to the car.
- The battery voltage of the remote control unit is too low. Change the battery as detailed on the following page.
- The remote control has been operated too many times in succession outside the car's normal remote operating range. Resynchronise the remote control as detailed on the following page.
- Overload of the central locking system has occurred as a result of repeated operation at short intervals. The power supply will be cut off for approximately 30 seconds.
- Interference from higher powered radio waves from other sources may affect the operation of the central locking system. Open the car by turning the key in the lock.

THE REMOTE CONTROL cont.

Synchronizing the remote control

In the event of malfunctions, synchronise the remote control:

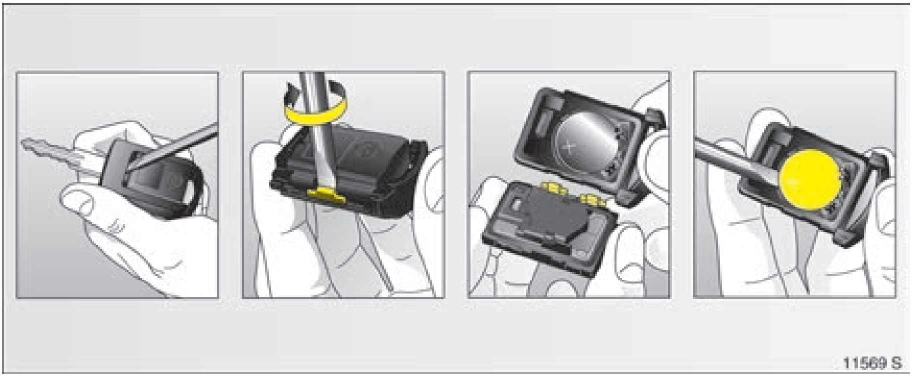
- Switch on ignition; system will then remain in synchronising mode for 30 seconds.
- Briefly press any button on the remote control unit while the key is in the ignition.
- The central locking system locks and unlocks to show that the remote control has been programmed.



Replacing the battery

Disengage the remote control from the key part using a screwdriver and open the remote control battery cover. Replace the battery, ensuring that it is inserted correctly. Close down the remote control so that it 'clicks' into the key part.

The battery change must be performed within 3 minutes, otherwise the remote control will have to be resynchronised.

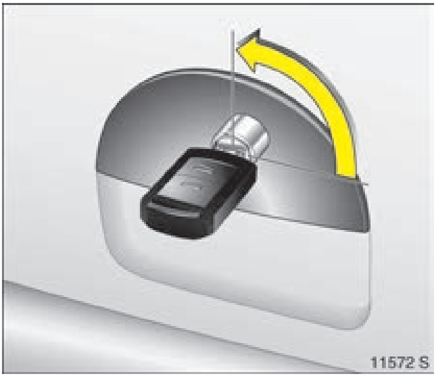


TAILGATE

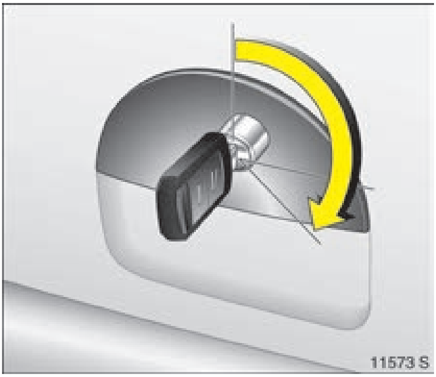
The central locking system cannot be switched on or off from the tailgate lock.

Provided that the key slot is horizontal, the tailgate will lock/unlock when the doors are locked/unlocked.

To keep tailgate permanently locked (regardless of door lock position) turn the key slot to the vertical position.

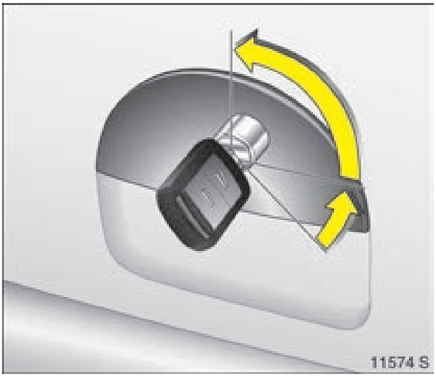


To unlock the tailgate when the doors are locked, turn the key fully clockwise, as far as it will go. *To guard against being locked out, the key cannot be removed in this position.* Press the button inwards.



To return the operation to locking/unlocking in synchronisation with the doors, after closing the tailgate, turn the key back to the horizontal position.

Turning the key to vertical position will disconnect the tailgate lock from the central locking system.



CHAPTER 3

Know your car

Page

3-2 Front seat adjustment
3-3 Head restraint adjustment
3-4 Seat folding – front and rear seats
3-6 Seat belts
3-8 Child restraints
3-10 Park brake
3-10 Dome (Interior) light
3-10 Reading lights
3-11 Luggage compartment light
3-12 Mirrors
3-12 Windows
3-13 Transporting objects
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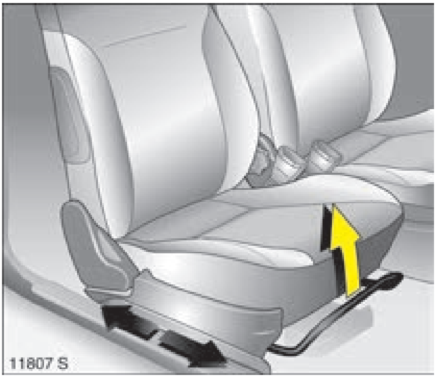
FRONT SEAT ADJUSTMENT

Forward/rearward

Pull the handle up at the front of the seat then slide the seat forward or backward. After releasing the handle try to move the seat back and forth to check that the catch has locked in position.

Never adjust the driver's seat whilst driving. The seat could move suddenly and cause the driver to lose control.

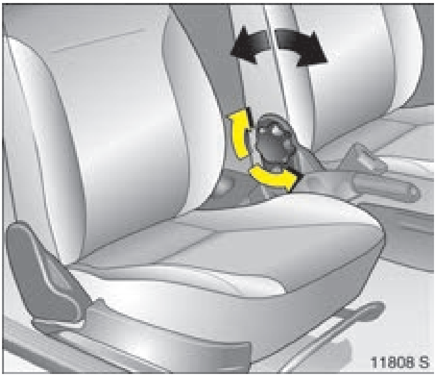


Recline/incline

To adjust the angle of the back of the seat, turn the large, toothed wheel illustrated.

CAUTION:

To avoid reducing the effectiveness of seat belts it is recommended that the reclining seats be used in no more than a semi-reclined position when the car is moving. The fully reclined position should be used only when the car is stationary.

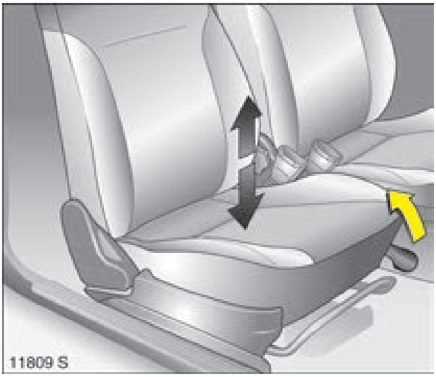


Driver's height adjustment (if fitted)

Lift the lever and remove body weight from the seat to raise the seat.

Lift the lever and press down on the seat with body weight to lower the seat.

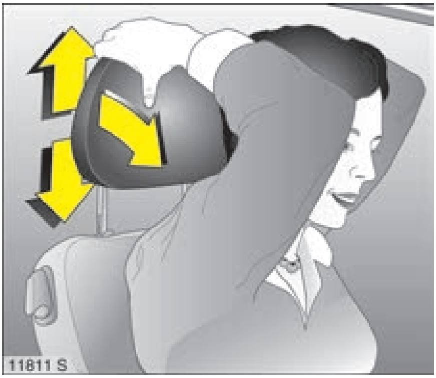
Never adjust the driver's seat whilst driving. The seat could move suddenly and cause the driver to lose control.



HEAD RESTRAINT ADJUSTMENT

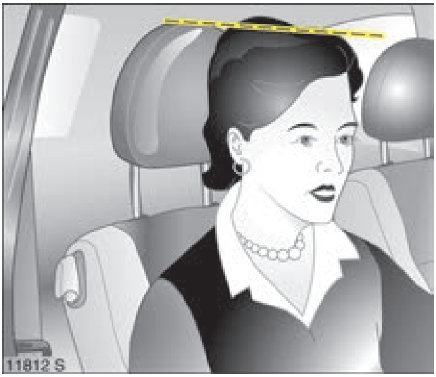
Head restraint adjustment

To adjust the head restraint height hold the restraint firmly at the top, tilt it forwards, lift up or push down and then release.



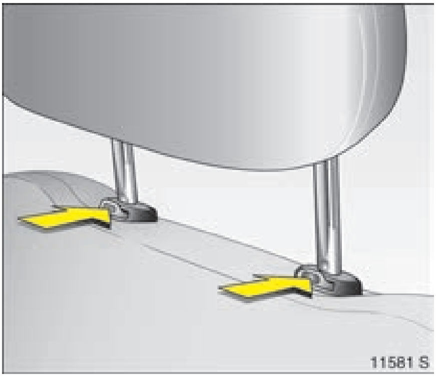
Head restraint height

The upper edge of the head restraint should be approximately level with the top of the head – never at neck level. If this is not possible for very tall passengers, the restraint should be set at its highest position.



Head restraint removal

To remove head restraints, squeeze both locking springs while pulling head restraint upward.



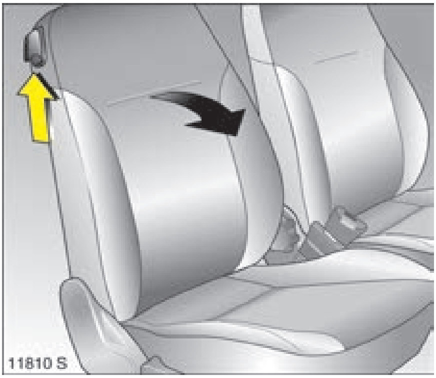
Active head restraints on front seats

Your Barina is fitted with active head restraints on the front seats. In the event of a rear end impact, the front head restraints will automatically tilt forward. The head is more effectively supported by the head restraint and the risk of neck injury is reduced.

SEAT FOLDING

Front seat folding (2 Door)

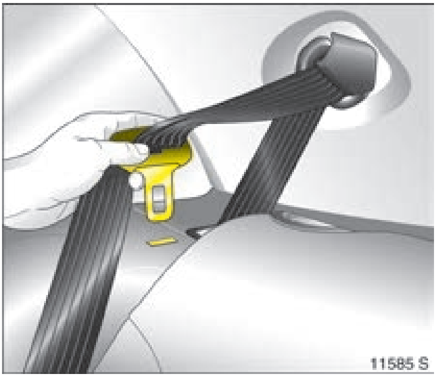
To allow easy entry and exiting of the rear seating positions, fold the front seat forward by pulling the lever upward.



Rear seat backrest folding

To avoid injury from passing traffic, don't stand on the road side of the car when converting the rear seat.

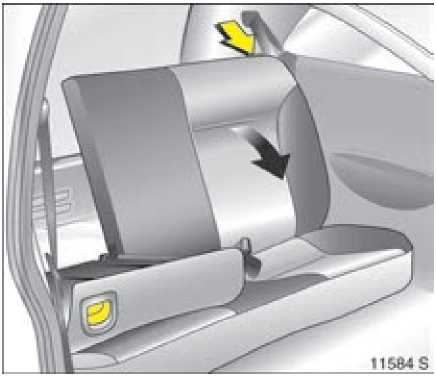
One or both rear backrests may be folded forward (60/40 split) to accommodate long objects. Prior to folding the seat, place the tongue of the seat belt into the holder provided on the side trim.



Disengage one or both rear backrests by depressing the push buttons and folding the backrest forward.

When repositioning rear seat backrests, pull seat belt forward to ensure it is not trapped.

Also ensure that the seat-back is firmly locked into the upright position by grasping and attempting to move it.

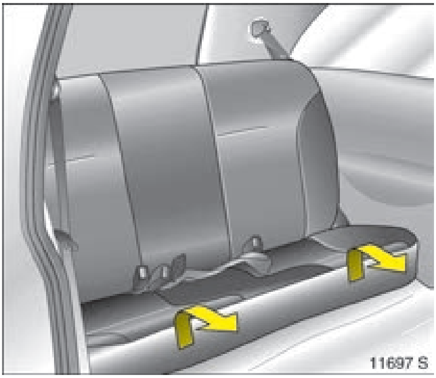


SEAT FOLDING cont.

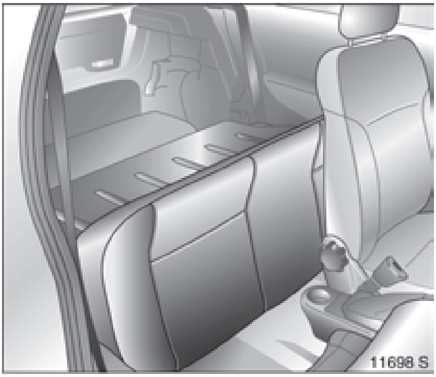
Luggage compartment enlargement

As shown on the previous page, place the tongues of the seat belts into the holders provided on the side trim.

Remove the rear seat from the floor by grasping at the front edge in the areas indicated by the arrows and pulling it upwards. When the front of the rear seat is clear of the floor, pull it forwards.



Swing the rear seat forwards. Fold the rear seat backrests forward as described on the previous page.

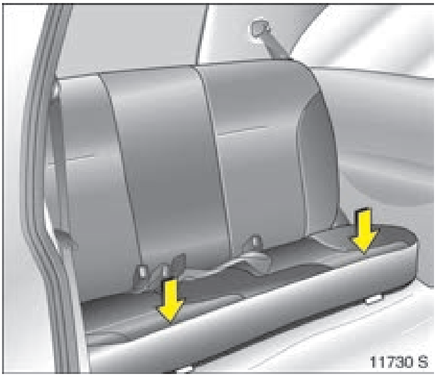


Repositioning rear seats

Reposition the backrests as described on the previous page.

Fold the rear seat down and push it into place between the backrests and the floor. Press firmly on the front edge of the rear seat in the areas indicated by the arrows to lock the seat into place.

Ensure that the rear seat is firmly attached to the floor by grasping and attempting to move it.



SEAT BELTS

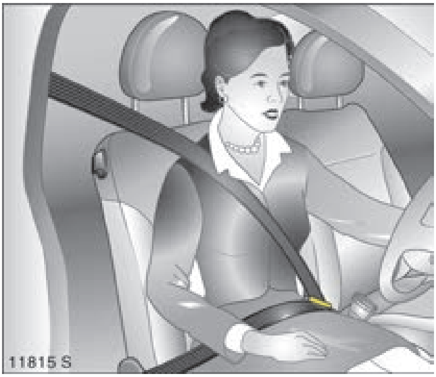
Lap-sash belts

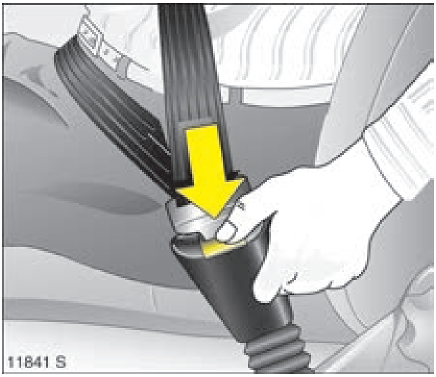
To put on a lap-sash seat belt, pull the metal tongue across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a “click”. After fastening, settle the belt at the hip, then tension the belt, by tugging the sash upward. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the sash and lap sections of the seat belt are free from twists and fits firmly.

The emergency-locking retractor allows you to move freely while the car is travelling normally. The belt will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To undo the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

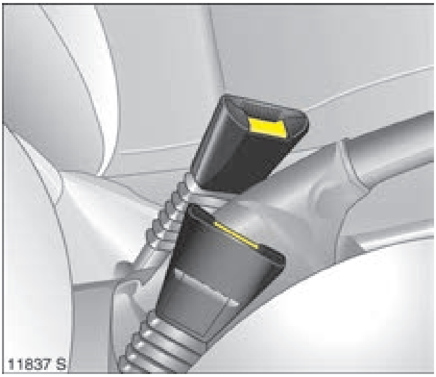




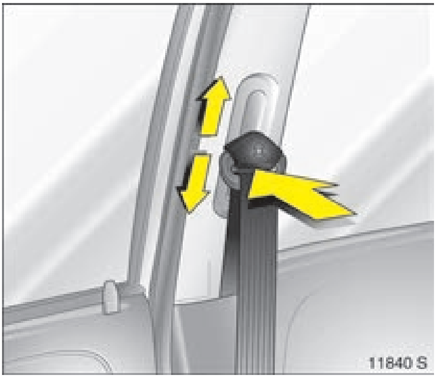
Seat belt pre-tensioners

The front seat belt system incorporates (once-only) seat belt pre-tensioners. In the event of a front-on or rear-end collision the belt buckles are pulled downwards; the diagonal and lap belts are instantaneously tightened.

If the seat belt pre-tensioners have been actuated the control indicator lights up. Actuation may also be indicated by yellow tabs on the belt buckles. If the belt pre-tensioners have been activated they must be replaced by a Holden Dealer. The seat belts remain operational even when the belt pre-tensioners have been actuated.



SEAT BELTS cont.



Seat belt height adjustment

of front seat belt upper anchorage points:

Do not adjust height while driving

- tilt belt guide inward at top
- slide belt guide to desired height and release
- allow guide anchorage to lock audibly into position

Adjust height so that the belt passes over the wearer's shoulder and rests against the shoulder. It must not pass over the neck or upper arm. Short people should select a low belt guide position, tall people a higher one.

Australian law requires that the driver and all passengers be properly restrained at all times with the seat belts provided in the car. Failure to do so could increase the chance of injury and/or the severity of injury in accidents.

Ensure that belts are not damaged or trapped by sharp-edged objects.

WARNING:

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious. Belts should not be worn with straps twisted.

Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modification or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

The positioning of the tongue restrictor must never interfere with, or stop, the belt from fully retracting.

CHILD RESTRAINTS

Infant and child restraints

Children should be restrained at all times when travelling in a car.

Up to the age of about 6 months, babies should be carried in a rearward-facing infant capsule. Between the ages of 6 and 12 months, they should be in a rearward-facing child seat. Between the ages of 12 months and 3 years, children can be carried in a forward facing infant seat. When they outgrow this type of seat (approximately 3 years old depending on their height and weight) children can be seated in an approved booster seat, restrained by a lap/sash safety belt. By the age of approximately 6 years, when they weigh more than 32 kilograms and are over 100 cm tall, children can graduate to a lap/sash seat belt alone.

Always ensure that the seat belt fits firmly around the infant restraint.

If a child can't see out of the window, don't raise him/her by means of an ordinary cushion. It will not stay in place in a crash and the child can slip out of the straps and become entangled.

WARNING:

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses or for attaching other items or equipment to the car.

Only approved child restraint harnesses should be used on anchorage points. See your Holden Dealer for advice about the various types of approved child restraints available.

INFANTS UNABLE TO SIT BY THEMSELVES should be carried in an approved child seat restraint. Check with your local Infant Welfare Centre for availability.

CAUTION:

NEVER install a rear-facing child restraint in the front seat of car with a passenger's side air bag. The child could be seriously injured if the passenger's side air bag inflates, as the child's head would be very close to the inflating air bag.

Where legally allowable, you may install a forward-facing child restraint in the front seat, but ALWAYS move the passenger seat as far back as it will go.

It is always better to install a child restraint in the rear seat.

CHILD RESTRAINTS cont.

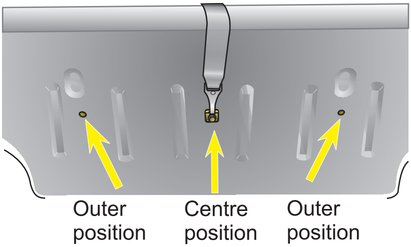
Three anchorage locations are provided in the hatch area, behind the rear seats, as shown.

One anchor fitting has been installed in the centre position.

CAUTION:

The anchor fittings referred to on these pages are only applicable to child restraints approved to Australian Standard AS 1754-1991 (and subsequent amendments). Older child restraints may not attach securely to this type of anchor.

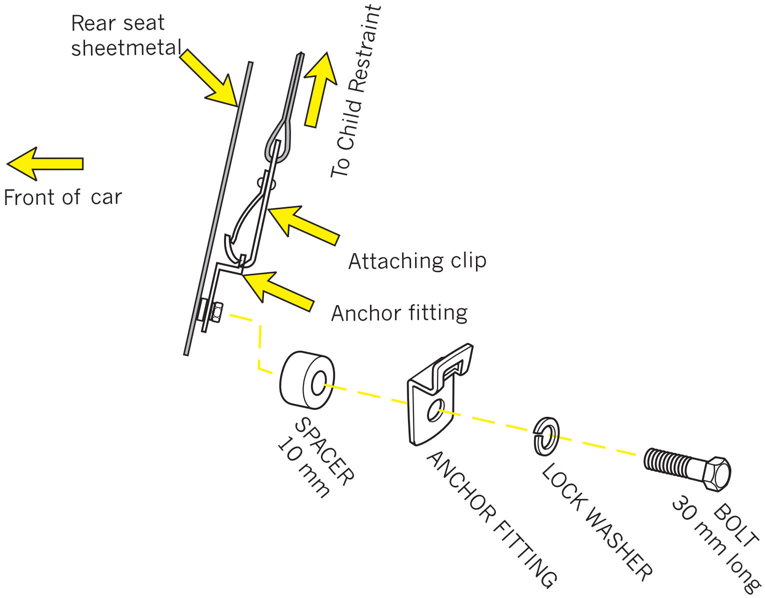
Anchorage locations behind rear seat


Outer position
Centre position
Outer position

11924 SHb

If you wish to use a child restraint in either of the outer positions, first remove the cover plug.

Then, install an additional anchor fitting, using the bolt, spacers and washer supplied with a child seat, as per the illustration below. Ensure that the bolts (inner or outer positions) are securely tightened, to 15~25 Newton metres, if unsure refer to your Holden Dealer.


Rear seat sheetmetal
To Child Restraint
Front of car
Attaching clip
Anchor fitting
SPACER 10 mm
ANCHOR FITTING
LOCK WASHER
BOLT 30 mm long

11925 SH

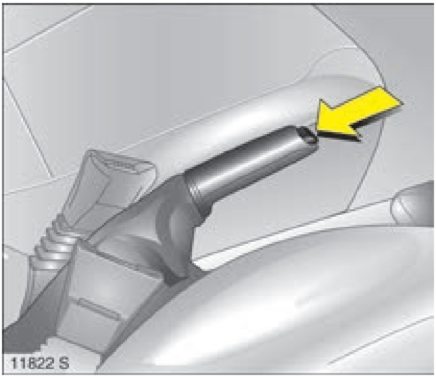
PARK BRAKE AND INTERIOR LIGHTS

Park brake

To apply, pull the lever straight up.

To release, pull the lever slightly upwards, push in the release button on the end of the lever and whilst depressed, lower the lever all the way down.

Never drive the car with the park brake applied.



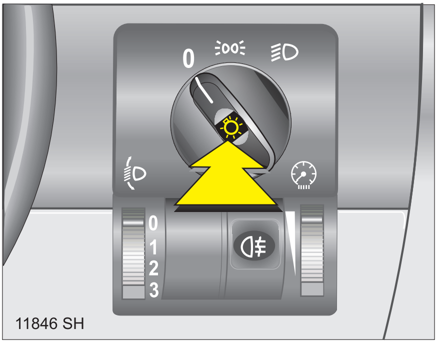
Interior light

The interior light switch is located in the centre of the headlight switch.

Press switch = On

Press switch again = Off

The interior light also comes on when a door is opened.

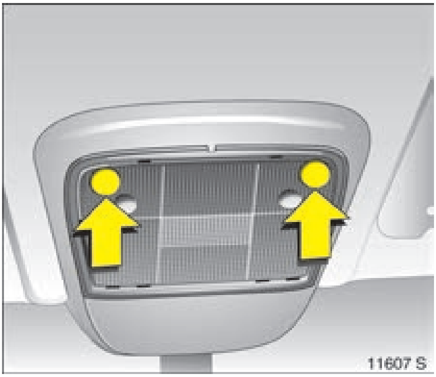


Reading lights, front (if fitted)

With the ignition on,

Press button = On

Press button again = Off



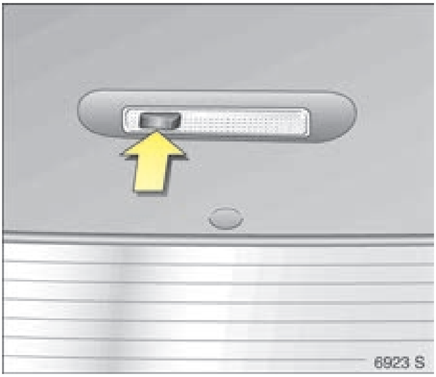
PARK BRAKE AND INTERIOR LIGHTS cont.

Rear reading light (4 Door)

Switch to left = Off

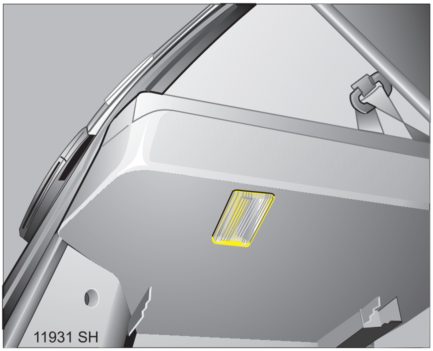
Switch to right = On

Switch to centre = Comes on when a rear door is opened.



Luggage compartment light

On the passenger side of the luggage compartment, a light comes on when the tailgate is opened.

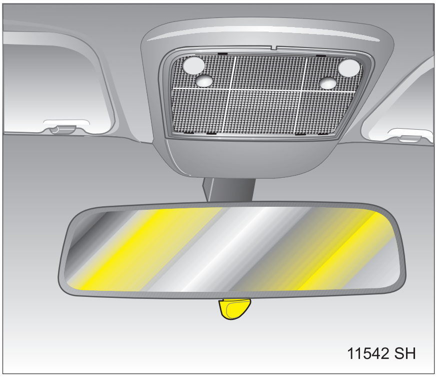


MIRRORS AND WINDOWS

Internal rear view mirror

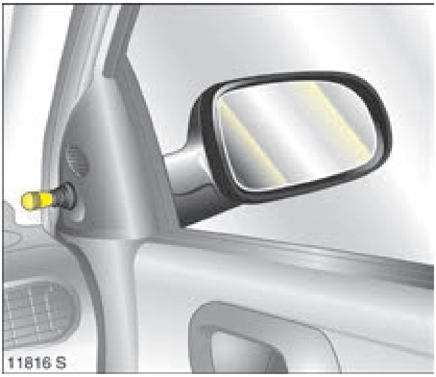
Grasp the mirror and swivel to adjust height.

Swivel the lever on the lower edge of the mirror to reduce dazzle at night.



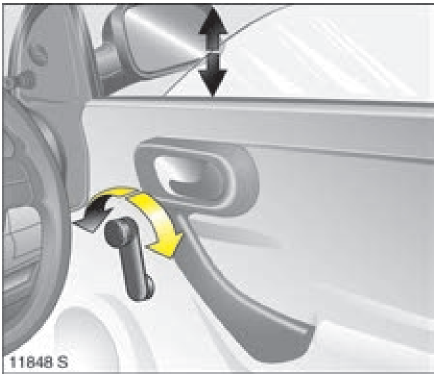
Exterior mirrors

Grasp the lever inside the car and move the mirror up/down and in/out as required.



Window winders

Turn the handle on the door to raise or lower a window.



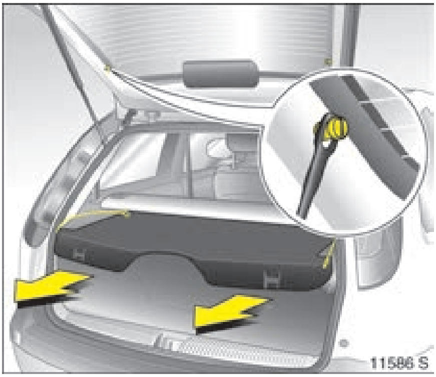
TRANSPORTING OBJECTS

Long objects and tall objects

Transporting long objects can be done by folding the rear seat backrests forward as previously described in this Chapter.

Bulky objects that cause the tailgate to be open or ajar should not be transported as exhaust fumes may enter the car.

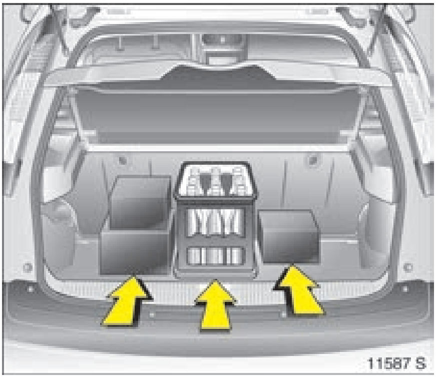
For transporting tall objects, unhook the luggage compartment cover at the tailgate. Remove the cover from the side guides and place it behind the seat backrests.



Heavy objects

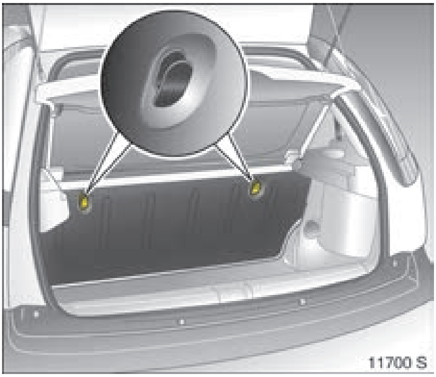
Heavy objects in the luggage compartment should be placed as far forward as possible against the rear seat backrests. If the rear seat backrests are folded down, position the objects against the front seat backrests. Ensure that backrests are locked in position.

No loads should exceed the maximum allowable weight. For weight limitations refer to Chapter 10.



Hanger hooks

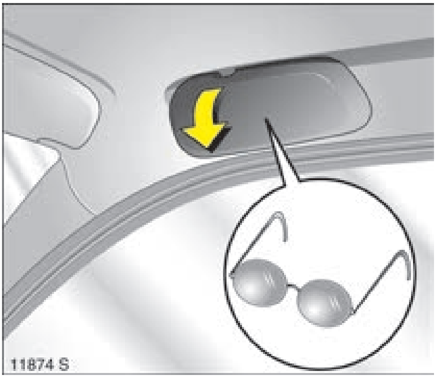
On the back of the rear seat backrests two hanger hooks are provided on which carrier bags may be hung. Maximum load per hook is 10 kg.



CONVENIENCE FEATURES

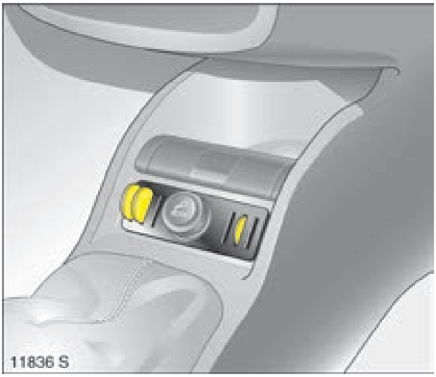
Glasses holder (if fitted)

Above the driver's door, a holder is provided to store sun-glasses or reading glasses. Fold down to open.



Coin holder

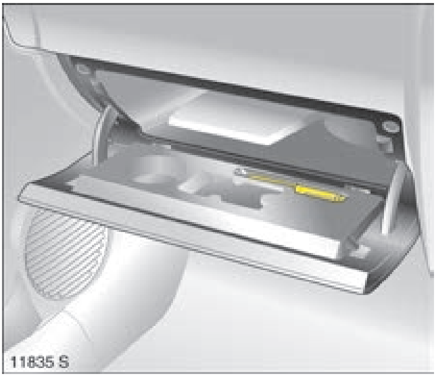
Slots for storing six coins are provided below the ashtray on the centre console.



Glovebox with pen holder

To open the glovebox, pull the opener upwards.

On the inside of the glovebox lid is a recess for pen storage.



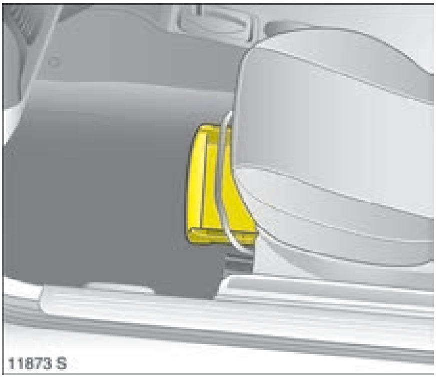
CONVENIENCE FEATURES cont.

Floor tray (if fitted)

A floor tray is provided under the front passenger's seat.

To open, lift the tray by grasping recessed edge and pull forwards.

To close, push the tray all the way in to lock in place.



CHAPTER 4

Driving

Page

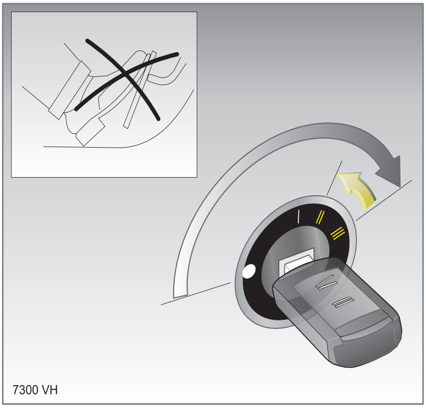
4-2 Engine starting
4-2 Running-in
4-3 Safety
4-4 Automatic transmission
4-7 Manual transmission
4-8 Driving precautions
4-8 Snow chains

ENGINE STARTING

1. Apply the park brake firmly and release only after you have started the engine and are ready to drive off.
2. MANUAL: Depress the clutch pedal and shift the gear lever to Neutral position. The clutch pedal can now be released.

   AUTOMATIC: Move the shift lever to P (park) or N (neutral) position to start the engine. *Note that to move the shift lever away from the P position the ignition must be ON and the brake pedal depressed.*
3. Start the engine as outlined below (with your foot off the accelerator).

   For cold or hot starting the procedure is the same. Simply turn the key to the start position and release when the engine starts. YOU DO NOT HAVE TO DEPRESS THE ACCELERATOR PEDAL PRIOR TO, OR DURING, STARTING. DEPRESSING THE ACCELERATOR PEDAL WILL ONLY INCREASE CRANKING TIME AND WILL NOT HELP THE ENGINE TO START.



If the engine doesn't start and the check engine warning light on the instrument panel is flashing, turn the ignition key to OFF for at least 2 seconds before attempting to start the engine again.

Running-in (for the first 1,000 km)

Drive your car at various speeds. **Do not use full throttle.** Never allow the engine to labour.

Make good use of all gears. Depress the accelerator pedal a maximum of around three quarters of the available pedal travel in all gears and drive ranges.

In the interests of the engine and final drive, do not drive faster than three quarters of maximum speed.

Unless necessary, try not to brake too hard during the first 200 km or after new brake pads have been fitted.

Switching off the engine

If the engine temperature is very high, e.g. after driving in hilly areas, then allow the engine to idle for approximately two minutes (in order to prevent heat accumulation) before switching off the engine.

SAFETY

Before entering the car

1. Check that windows, mirrors and lights are clean.
2. Check tyres are not flat.

Before driving off

1. Be sure that all doors are secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check that all the warning indicators light up when you turn the key to start the engine, refer to Chapter 1.

   AUTOMATIC ONLY: With the engine running, depress the brake pedal before moving the T-bar away from the "P" position.

Parking

1. Apply the park brake.
2. Automatic transmission: place in PARK.
   Manual transmission: place in FIRST or REVERSE gear.
3. Shut all windows.
4. Switch off exterior lights.
5. Turn ignition key to LOCK and remove the key.
6. Lock all doors and set deadlock, if appropriate (refer to Chapter 2).

CAUTION:

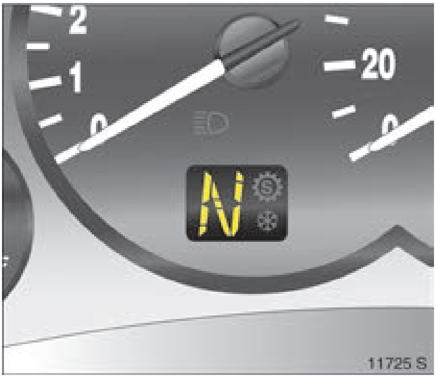
Be careful where you park or drive. As with any car, do not park or operate this car in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

Never leave the engine running in an enclosed space, such as a closed garage or underground car park.

AUTOMATIC TRANSMISSION

T-bar selector position indicator

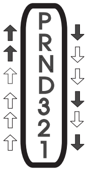
When the ignition is on, the current T-bar position is displayed on the instrument cluster below the tachometer. The engine will not start unless the T-bar selector is in "P" or "N".

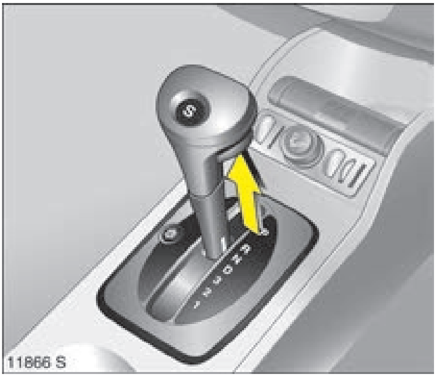


To move out of P position, switch on the ignition, depress the brake pedal and raise the gear selection release under the T-bar.

Raise the release when shifting into any position indicated by the black arrow.

You may shift (without raising the release) into any position marked by the outline arrow.



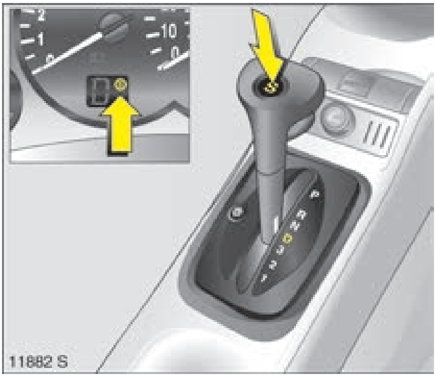


Sports/economy drive

Press the button on top of the T-bar to switch between sports and economy drive programmes.

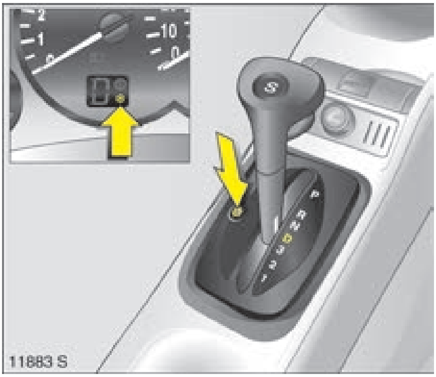
When the sports programme (higher engine speeds) is selected the indicator light on the instrument cluster will be illuminated.

Note that after the engine has initially been started and Drive selected, the economy programme is automatically selected.



AUTOMATIC TRANSMISSION cont.

Starting-off aid (slippery conditions)



In the event of starting-off difficulties in slippery conditions, press the button shown. The T-bar must be in P,R,N,D or 3.

If the starting-off programme is selected, the indicator light on the instrument cluster will be illuminated.

When the car moves off it will be in third gear.

Press the button again to switch the system off.

It will be automatically switched off:

- if the T-bar is moved to position 2 or 1
- if the ignition is turned off

Operating notes

P (park)	This stops the front wheels from turning and so should be selected (together with the park brake) when leaving the car. Never select “P” until your car is fully stopped. The brake pedal must be depressed and the ignition ON before the T-bar can be moved away from the “P” position.
R (reverse)	Never select “R” until your car is fully stopped. Reversing lights will operate when “R” is selected and the ignition is on. After reversing, make sure the car has fully stopped before proceeding forward again.
N (neutral)	This is the out-of-gear position. You may restart a stalled engine while the car is still moving or stopped.
D (fourth)	This is the most effective position for normal or freeway driving. The D position gives maximum fuel efficiency, as the transmission can choose the appropriate gear (1 through to D) for the load and driving conditions.
3 (third)	Third is most effective when overtaking and gives responsive acceleration and deceleration, especially in hilly areas. This position allows the transmission to shift between first, second and third gear as conditions require. Drive (4th gear) is excluded.
2 (second)	Use this position when going down a steep gradient to avoid excessive use of the brakes. The transmission will shift between first and second gear as required. Move the lever back into the Drive position to return to normal driving.
1 (first)	Use this position when strong braking effect is needed down a very steep gradient. Remember to move the T-bar back to Drive position so that the transmission will again up shift into higher gears. If 1st gear is selected at too high a speed then the transmission remains in 2nd gear until you have slowed down sufficiently.

AUTOMATIC TRANSMISSION cont.

Tips for better driving

- If selecting a lower gear than “D” while driving, ensure car speed is sufficiently reduced before moving the T-bar.
- Don’t press the accelerator pedal with the brakes on in either “1”, “2”, “3”, “D” or “R”. This will overheat the transmission.
- Don’t use the accelerator pedal to hold the car on a slope. Use the brakes.
- Don’t coast the car in “N” – this lessens your control and the engine braking power.

Transmission operating characteristics

- NEUTRAL IDLE CONTROL: This feature is designed to reduce fuel consumption. Neutral Idle Control electronically switches the transmission into neutral (without you having to move the T-bar) when the engine is idling in a forward gear (“1”, “2”, “3”, “D”), the accelerator pedal is not depressed, the brake pedal is depressed and the car is stationary. When the brake pedal is released (to move from stationary) the transmission electronically switches back to the selected position of the T-bar.
- COLD START OPERATION: By means of delayed shifting (higher engine speeds) following a cold start, the operating temperature programme quickly and automatically brings the catalytic converter to the temperature required for optimum pollutant reduction.
- ADAPTIVE SHIFT PROGRAMMES: Adaptive programmes automatically adapt gear shifting to suit the prevailing driving conditions, such as if the car is carrying a heavier than normal load, or is being driven on inclines.
- FAULT MODE: If the car suddenly will not accelerate as usual, or will not shift down to a lower gear when you press the accelerator pedal to the floor, or the automatic transmission fault light (in the instrument cluster) is illuminated, then a fault is indicated in the transmission. Refer to Chapter 1 for transmission fault light details. You should use the T-bar to manually shift through the gears. Second gear is not available in Fault Mode. In Fault Mode the gears are as follows:

  1 = 1st gear
  2 = **3rd** gear
  3 = **4th** gear
  D = 4th gear
  N = Neutral
  R = Reverse gear
  P = Park

  Consult a Holden Dealer as soon as possible if a fault is indicated.

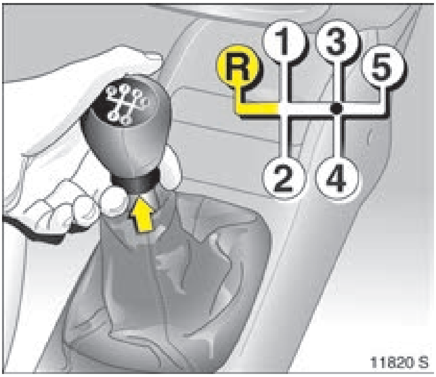
MANUAL TRANSMISSION

This system has 5 forward gears and a reverse gear. The shift pattern illustrated, is found on the top of the gear shift lever.

When selecting fifth gear you must shift the gear lever sideways against light spring pressure in order to pass into the gear.

To select reverse gear, lift the ring beneath the knob on gear shift lever and move the lever into the reverse position.

If the gear does not engage easily, then release and depress the clutch pedal, or try moving to another gear, before trying again.



Shift speeds

The chart shows the recommended change speeds at which gear changes should be made for normal driving. Using shift speeds in the "economy" category will assist in maximising fuel economy.

Upshifting at higher road speeds will be necessary according to varying driving conditions such as load, road gradient, during overtaking and when other than light acceleration is required.

Manual transmission change speeds

Gear change	Economy	Normal
1st~2nd	20 km/h	24 km/h
2nd~3rd	28 km/h	40 km/h
3rd~4th	46 km/h	64 km/h
4th~5th	58 km/h	72 km/h

Operating notes

- When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid clashing and possible chipping of the transmission gears.
- Never attempt to engage reverse gear until the car has completely stopped. A slight pause (a few seconds) between depressing the clutch pedal and moving into reverse gear is desirable to allow all the rotating components to stop and avoid gear clashing. Whenever reverse gear is selected with the ignition ON, the reversing lights will operate.
- Shift the gear lever with a moderate effort to allow time for the transmission synchronisers to work properly.
- Do not drive with your foot resting on the clutch pedal. This will cause substantial clutch wear.
- When stopped on an incline do not hold the car by slipping the clutch. Use the park brake or brake pedal.
- To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the descent.
- Do not over-speed the engine when shifting down to the next lowest gear.

DRIVING PRECAUTIONS

Brakes

- Power assisted brakes, which are fitted to your car, utilise vacuum from the engine when it is running. Never let the car run down steep grades without the engine running. Never coast with the engine switched off.
- Driving through water may affect performance. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.
- Brake pedal travel should not be obstructed by ill-fitting floor mats or any other material under the pedal which causes interference with normal pedal movement.
- Your seat should be positioned so that you can push the brake pedal satisfactorily under all braking conditions.

Power steering

If the power steering is rendered ineffective because a fault has developed with the power steering system, the car can still be steered.

However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

Loose articles

Do not leave loose articles or luggage in the passenger compartment. Whenever possible, loads stowed in the luggage compartment should be firmly secured.

Tyre traction

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Driving practices and car speed should be adjusted to the road conditions.

Snow chains

- Your Barina is a 'front wheel drive' car, and as such, snow chains are only fitted on the front (driving) wheels.
- They must be fitted symmetrically on the tyre to ensure that they are seated concentrically. Only fine-linked chains, not protruding more than 15 mm on the tyre tread and inside of the tyre (including the chain lock) should be used.
- Depending on design, large hub caps may come into contact with parts of the chains. In such cases, remove the hub caps.

CAUTION:

Tyre chains can only be used at speeds up to 50 km/h and, when travelling on roads that are free of snow they should only be used for brief periods, since they are subject to rapid wear on hard roads and may snap.

NOTES

CHAPTER

5

Fuel

Page

5-2 Carbon monoxide caution
5-3 Petrol filling
5-4 Fuel tank capacity
5-5 Emission control
5-6 Reducing fuel consumption

PETROL

EXHAUST WARNING – CARBON MONOXIDE POISONING

Exhaust gases can produce carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your car is faulty.

To protect against exhaust gases entering the car, the exhaust system and body should be inspected:

– each time the car is serviced,

– whenever a change is noticed in the sound of the exhaust system,

– whenever the exhaust system, underbody or rear of the car is damaged.

Take the car to your Holden Dealer if you think your car needs inspecting for any of the above reasons.

DO NOT SIT (OR LEAVE CHILDREN OR PETS) IN A PARKED CAR FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING. DO NOT RUN THE ENGINE IN AN ENCLOSED AREA (SUCH AS THE GARAGE) ANY LONGER THAN IS NEEDED TO MOVE THE CAR.

Driving with the hatch/boot open is not recommended. If you *must* travel with hatch/boot open, close all windows, ensure that the heater controls are set to the fresh air position (rather than recirculate) with air directed to the face and the fan on the highest speed. Do not exceed 50 km/h unless necessary.

PETROL cont.

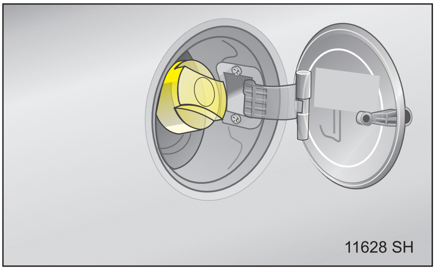
CAUTION:

- **Petrol should be regarded as extremely flammable and highly explosive.**
- **Always turn off the engine and any mobile phones when refuelling.**
- **Do not smoke or allow open flames or sparks near the car when refuelling.**
- **If petrol fumes are smelt while driving, the cause should be found and corrected without delay.**

The petrol filler is located on the driver's side of the car.

The petrol flap is unlocked when the doors are unlocked and locked when the doors are locked. Remove the filler cap by turning anti-clockwise.

After refilling, tighten the cap firmly clockwise and close the petrol flap.



Over filling of the petrol tank can affect the evaporative Emission Control System and can also result in a smell of petrol inside the car. Therefore:

1. Petrol tanks should always be filled at the intermediate or fast fill rate. Don’t add any more petrol after the petrol filler first clicks off (or petrol blows back) – as this allows room for the petrol to expand inside the tank.
2. It is permissible to “trickle fill” petrol tanks when cars are to be driven for more than 50 km straight after the tank is filled. However, this is not recommended on hot days (over 30°C).

Wipe off any overflowing petrol immediately from the car; spray or splash with water (close the fuel opening before spraying with water).

PETROL cont.

Tank capacity = 45 litres

Petrol filler nozzle restrictor

To help the atmosphere, your car has been designed to operate on UNLEADED PETROL. A petrol nozzle restrictor is fitted to ensure that only UNLEADED petrol is used. This allows the smaller diameter, unleaded petrol nozzle to open the hinged flap inside the filler neck, so that petrol can be added to the tank. The leaded petrol nozzle is wider and therefore cannot open the flap. The use of fuel other than unleaded fuel will seriously damage the fuel system of your car (particularly the catalytic converter and oxygen sensor) and may void your Warranty.

Petrol requirements R.O.N. (Research Octane Number)

Use clean, UNLEADED PETROL of at least 91 octane rating. High octane (PREMIUM UNLEADED) can be used and will provide slight improvement in engine power and torque.

EMISSION CONTROL

Your car is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions, contribute to photochemical smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

Owner responsibility

Cars sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements.

The engine or exhaust system of your car must NOT be modified in any way. Any change to the Manufacturer's design may increase the emissions or otherwise defeat the intent of the regulations.

Any person who removes, modifies or hinders any part of the emission control system fitted to a car will be contravening Australian Design Rules, refer A.D.R. 28/01 (External Noise for Motor Vehicles) and A.D.R. 37/01 (Emission Control for Light Vehicles). It is also illegal to drive a car modified in this way.

Maintenance requirements

To ensure continuing compliance with the regulations you must maintain your car's emission control system as per your car's service manual, at the frequency shown in the Maintenance schedule in Chapter 12.

It is recommended that the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

REDUCING FUEL CONSUMPTION

Engine

Maintain the engine in peak mechanical condition by having it serviced regularly in accordance with the Maintenance schedule in Chapter 12. This will ensure items such as the spark plugs, air cleaner, etc. are maintained for minimum fuel usage and peak engine performance.

Tyre pressure

Inadequate tyre pressure causes for higher fuel consumption and increased tyre wear. Keep the tyres at the recommended pressures.

Wheel alignment

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag and increases fuel consumption.

Warm ups and idling

Avoid long engine warm ups through idling. They are unnecessary and waste fuel. An engine reaches its efficient operating temperature most effectively when driving.

You should also avoid long engine idling. If you have to wait for more than a couple of minutes it is worthwhile to switch off the engine and conserve fuel. Three minutes of idling corresponds to approximately 1 km of driving.

Accelerating, driving and braking

Accelerate gently and avoid rapid starts. Sudden bursts of speed and full throttle acceleration are certain fuel wasters.

Drive the car at steady speeds where possible (after run-in). It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

Riding the brake

“Riding the brake” by resting your foot on the brake pedal when you do not intend to brake can cause overheated brakes. This can wear out the brake pads faster, damage the brakes and waste fuel.

Air conditioning

Turn off the air conditioning when not required, to reduce fuel consumption.

Roof racks and ski-holder

Roof racks and ski-holders can increase fuel consumption by 1 litre per 100 km or more, due to the increased air resistance. They should therefore be removed when not in use.

Loading

Unnecessary weight increases fuel consumption, especially when accelerating. In city traffic, a load of 100 kg can increase fuel consumption by 0.5 litre per 100 km.

CHAPTER 6

Emergencies

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6-2 Accidents
6-3 Medical assistance
6-4 Flat tyre
6-8 Towing a disabled car
6-10 Engine overheating
6-12 Flat battery
6-14 Air bags
6-16 Bulb replacement
6-24 Fuses

Your new car is covered for 3 years by 24 hour Roadside Assistance, refer Chapter 9.

ACCIDENTS

All motorists are advised to learn what to do at the scene of an accident, particularly where persons are injured. Injured people can choke to death if their air passages are not cleared. They can bleed to death unless the bleeding is stopped. They may require mouth-to-mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs. In all cases, ensure safety for the rescuers, victims and bystanders. The following notes may help.

Part 1. Accident - being involved

If you are involved in an accident you are advised to do as follows:

Stop immediately and remember to turn off the engine and apply the park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons (see Part 3. Medical assistance).

Send for police and ambulance if anyone has been injured. Give information as accurately as possible. Give the exact location, the number of injured people and a brief report on the overall situation.

Warn all other traffic approaching the scene. Turn off all ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others - use a torch, headlights etc. Do not use flammable items.

Clear the road of accident debris.

Exchange your name, address, car registration number and the car owner’s name and address with the other parties involved in the accident.

If damage to property only has occurred, report the facts to the owner of the damaged property, to his or her representative, to any police present at the scene or to the nearest Police Station.

Try to note all important facts because such details may be important if needed later.

Part 2. Accident - being a witness

If you witness a road accident or it becomes your task to stop and help at the scene of an accident:

- Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.
- DO NOT stop at the scene of an accident just to be a spectator.
- Where other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.
- Give what assistance you can to any injured persons (see Part 3. Medical assistance).

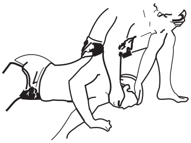
ACCIDENTS cont.

Part 3. Medical assistance

This information is basic first aid information which is intended as a guide only and may not be applicable in all situations. You should always defer to a trained medical officer or other person with first aid knowledge. Protective equipment such as rubber gloves are recommended.

Keep calm and think clearly. Your experience may not be much but do your best.

- Look after the unconscious person first. Check airway, breathing and circulation. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.
- You must be most careful in moving an injured person. Often it is best not to move at all but in conditions of danger, this is not always possible. Serious and permanent damage can be done to an injured neck or back if not supported during movement. AVOID BENDING OR TWISTING A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.



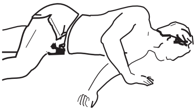
Unconscious people can choke.

Carefully turn to one side.

Tilt the head back slightly.

Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.

- Provided it is not dangerous to do so because of other injuries, an unconscious person will do best in the position illustrated here.



Lay the person on one side. If it will not aggravate any injuries then:

Bend the uppermost knee until the thigh is at right angle to the body.

Bend the uppermost arm and elbow so that the hand lies near the face.

Gently pull the underneath arm so that it rests straight on the ground free of any body weight.

- Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.
- Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. It is best not to give any fluids and NEVER ALCOHOL.
- If the injured person is in danger and has to be moved, try and have three or four people help and concentrate on not bending or twisting the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

FLAT TYRE

If using a jack other than the one supplied with the car, refer to Chapter 7 for lifting positions.

CAUTION:

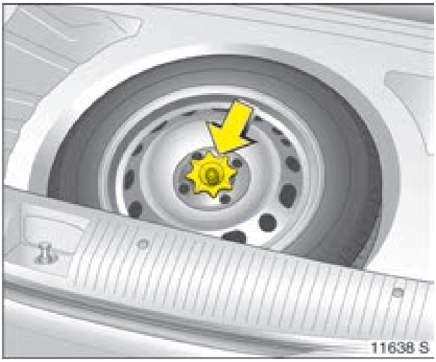
- **Use the jack only for lifting the car when changing wheels.**
- **Never get beneath the car when it is only supported by the jack.**
- **Do not start or run the engine while the car is only supported by the jack.**
- **All passengers should be out of the car when it is being jacked.**
- **Use the jack only at the designated lifting points. Use in other locations could damage the car.**
- **The car should only be jacked on hard, level surfaces.**

1. Park on level surface, ensure wheels are pointing straight ahead and set the park brake firmly.

2. Remove the ignition key (to lock the steering) and place manual transmissions in REVERSE gear or automatic transmissions in PARK.

3. Remove the jack and tools.

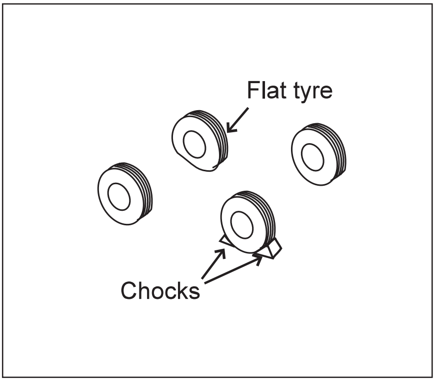
   The spare wheel, jack and tools are stored under the luggage compartment floor area. Lift the floor cover to access the spare wheel, jack and tools.



4. Remove the spare wheel (secured by plastic wing nut) , the jack and car tools, which are stowed in a bag underneath the spare wheel.

FLAT TYRE cont.

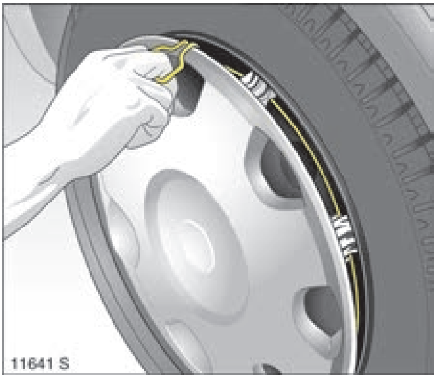
5. Chock the wheel diagonally opposite the flat tyre by placing wedge blocks, any available blocks of wood or rocks behind and in front of it.



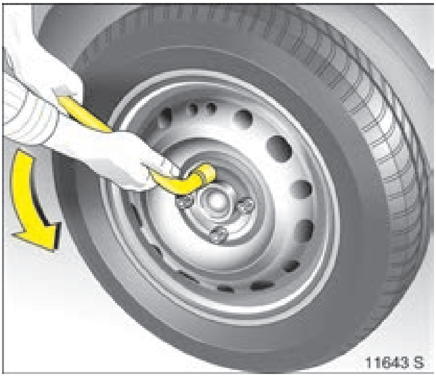
6. Remove the wheel trim.

   Steel wheels (if fitted): For cars with wheels covers, remove by hand, using the tool provided in the car tool kit.

   Alloy wheels (if fitted): For cars with centre caps, prise off the centre cap with a screwdriver, or similar. Remove the individual wheel bolt caps from the wheel bolts. For cars with anti-theft wheels, remove the centre cap using the key included with the tool kit.

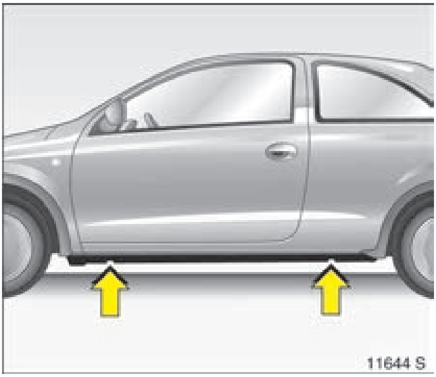


7. Loosen (but do not remove) the wheel bolts with wheel bolt wrench.



FLAT TYRE cont.

8. Depressions on the lower edge of the vehicle underbody indicate the points where the jack is to be placed.

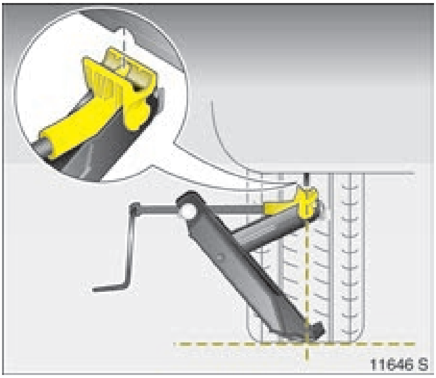


CAUTION:

Failure to position the jack as described above could result in serious personal injury or car damage caused by the car slipping off the jack.

9. Position the jack in the underbody depression that is nearest the flat tyre.

   Ensure that the centre of the jack claw is in line with the half circle cutout in the underbody and that the jack base is in line with the claw.



10. Raise the car by turning the crank handle, until the tyre is clear of the ground.

11. Remove the wheel bolts and place together in a dry spot, to avoid getting dirt in the threads.

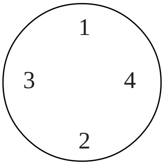
FLAT TYRE cont.

12. Remove the wheel from the car and change it over with the spare.

13. Replace the wheel bolts and tighten by hand. Then, with the wheel wrench, lightly tighten in a crisscross sequence.

14. Lower the car completely and remove the jack.

15. Fully tighten the wheel bolts with the wheel wrench in a crisscross sequence, as shown.



16. Replace the wheel trim:

    Steel wheels: Wheel covers have a valve symbol on the rear of the cover, which should point towards the valve. Line the hole for the valve with the valve and press on the wheel trim.

    Alloy wheels: Replace the individual wheel stud caps and press on the centre cover.

17. Refit jacking point cover to body by hand.

18. Stow away wheel, tools and jack.

19. Have the flat tyre repaired as soon as possible.

CAUTION:

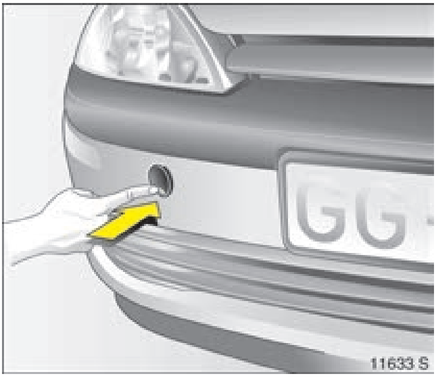
As soon as possible after changing a wheel, you should have the wheel bolts tightened with a torque wrench to 110 Newton metres and have the new wheel balanced on the car.

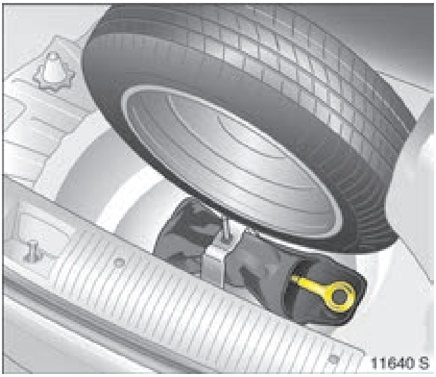
Wheel bolts should be tightened evenly to the correct torque in a crisscross pattern. Wheel bolts which have not been tightened properly could eventually allow the wheel to come off while the car is moving.

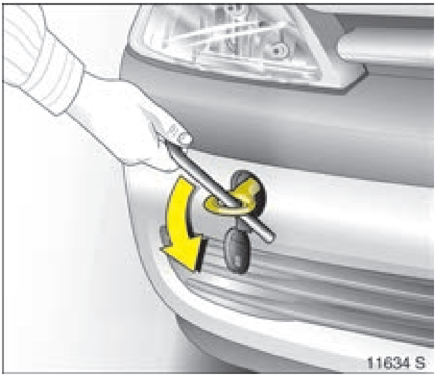
TOWING A DISABLED BARINA

Proper lifting or towing equipment is necessary to prevent damage during any towing operation of the car. State and Local laws must be followed. In an emergency, your car may be towed on all four wheels in the following manner:

- Open the cover concealing the hole for the towing eye (located at the front of the car on the driver's side) by disengaging the cover at the bottom and pulling downwards.
- The towing eye is located in the bag containing the jack and tools underneath the spare wheel in the load area.
- Screw in the towing eye anti-clockwise as far as it will go and use the wheel bolt wrench to tighten it until it is fully horizontal.
- Attach a tow rope to the eye. Do not attach to the bumpers, brackets or any other part of the car.
- Place transmission in neutral/N position and release the park brake.
- Switch the ignition to position ll (ON). This will free the steering lock and allow the correct operation of windscreen wipers, horn and turn signals.
- For the sake of safety and to prevent damage to the car it is advisable to avoid jerky movements and to drive slowly during towing operations.
- Remember that power assist for brakes and power steering will not be available when the engine is off. Therefore, more effort will be required to brake and steer.
- To prevent the entry of exhaust fumes from the towing car into the passenger compartment of your car, close the windows and stop entry of air by moving heating and ventilation controls to “recirculate” position.
- Cars fitted with automatic transmissions should only be towed facing forwards and must not be towed for more than 100 km or at over 80 km/h
- If the transmission is defective, or if the above speed or distance is to be exceeded, the front of the car must be raised.
- Only the driver should be in a towed car.







TOWING A DISABLED BARINA cont.

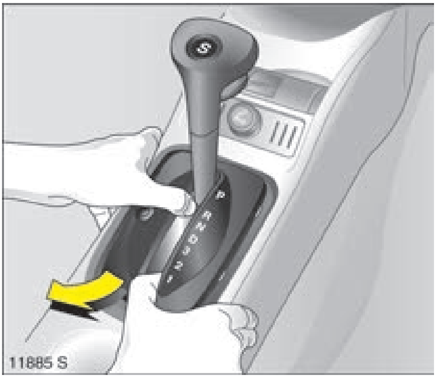
Barina with automatic transmission

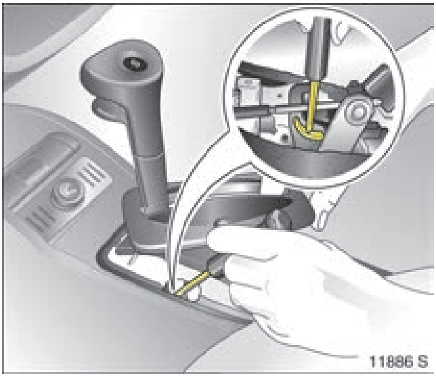
For safety reasons, the transmission has an electric PARK lock so that the key must be in the ignition (in the ON position) before the T-bar can be moved away from the "P" position. If the car's battery is flat the T-bar cannot be moved, as required for towing.

Therefore, to move the T-bar:

1. Apply the park brake.
2. Disengage T-bar trim from console and rotate it anti-clockwise.
3. Push catch forward and move T-bar handle out of "P" position, as per the illustration.
4. Replace T-bar trim on centre console.
5. Refit cover on console.

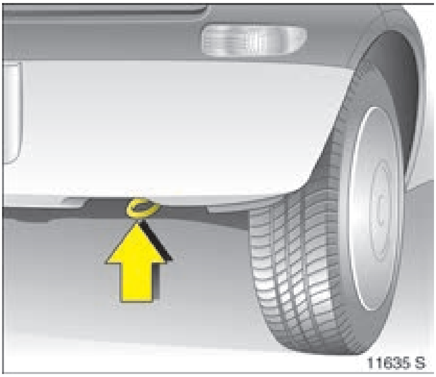
Moving the T-bar back to the "P" position again will re-lock the lever.





Towing another car with your Barina

Attach a tow rope to the rear towing eye, never to the rear axle. Drive off slowly and avoid jerky movements.



ENGINE OVERHEATING

CAUTION:

Immediate action is required if the engine overheats. This can be indicated by the temperature gauge needle moving to the red zone, by steam escaping from under the bonnet, a loss of power or a loud knocking or pinging noise.

Continued driving EVEN FOR A SHORT TIME could cause a fire or car damage.

Pull out of the traffic as soon as possible and stop the car. Leave the engine idling and the park brake applied while you get out and check that the cooling fan is working.

CAUTION:

Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.

If the fan is working and the temperature gauge needle has not returned to its normal position within a few minutes STOP the engine and remove the ignition key.

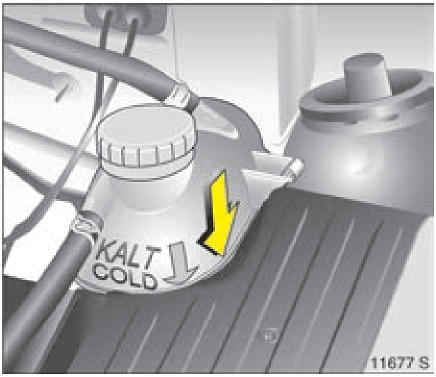
Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump.

Take care when checking all these areas as they will probably still be hot.

IF YOU FIND A MAJOR LEAK OR OTHER PROBLEMS THAT MAY HAVE CAUSED THE ENGINE TO OVERHEAT, DO NOT RUN THE ENGINE UNTIL THESE PROBLEMS HAVE BEEN CORRECTED.

If you do not find anything wrong then you should check the engine coolant level in the surge tank.

The coolant level in the surge tank should be slightly above the KALT /COLD mark, indicated by the arrow symbol ⇩ visible on the surge tank, when the system is cold. The level rises with the engine operating temperature and drops again when the engine cools down. If the level falls below the mark, the coolant should be replenished to a little over the mark.



CAUTION:

Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

ENGINE OVERHEATING cont.

If the level is low, remove the surge tank cap as follows:

Cover the surge tank cap with a thick cloth. Turn the cap slowly anticlockwise and remove.

Top up the surge tank with clean water to a little over the KALT / COLD level, indicated by the arrow symbol ⇩ visible on the surge tank, WHEN THE ENGINE IS IDLING.

Replace the cap and leave the engine idling for a few minutes.

If, after taking one or more of the above actions the temperature gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition.

If overheating occurs again you should have the car attended to, as soon as possible, by a qualified mechanic.

Note that with this type of sealed, pressurised cooling system there should be very little loss of coolant. If the surge tank is low a leak is indicated. Therefore you should see your Holden Dealer as soon as possible to fix the leak.

The engine may temporarily operate at high temperatures during more demanding operating conditions, especially on very hot days. These conditions include:

- climbing a long hill
- stopping immediately after high speed driving
- idling for long periods in traffic
- towing a heavily laden trailer or caravan

You should avoid operating your car for prolonged periods in any of the above circumstances if the temperature gauge indicates a high engine coolant temperature.

Refer to Chapter 7, which gives maintenance instructions to help protect your cooling system from overheating.

FLAT BATTERY

CAUTION:

DO NOT attempt to "push start" this car, as it is fitted with a catalytic converter and if un-combusted fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire.

If your car will not start due to a flat battery, it can often be started by using energy from a battery in another car - a procedure called "jump starting".

Please read the following procedure in full before attempting to jump start your car.

However, if after reading the following procedure you are still unsure about jump starting we strongly recommend for your safety and that of your car that you leave the starting to a competent mechanic.

Jump starting

CAUTION:

Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, to lessen the chance of personal injury when working near a battery:

- **Do not expose the battery to open flames or sparks. Battery action generates hydrogen gas which is flammable and explosive.**
- **Do not smoke near a battery.**
- **Wear eye protection such as industrial safety glasses and avoid leaning over the battery whenever possible.**
- **Do not allow battery acid to contact eyes or skin. Flush any contacted area with water immediately. In case of eye contact you should get medical help. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.**
- **Be sure any batteries that have filler caps are properly filled with fluid.**
- **Remove rings, metal watch bands and other metal jewellery before working around the battery.**
- **Carefully follow each step in the jump starting process.**
- **Never use a quick charger to start your engine.**
- **Do not lean over the battery during jump starting.**

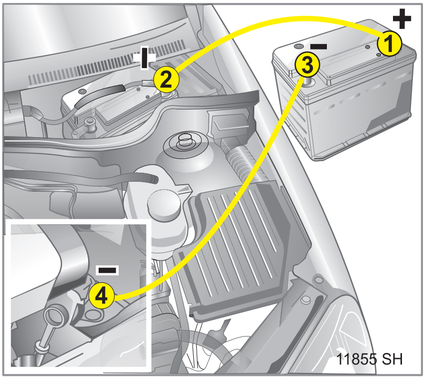
FLAT BATTERY cont.

- **The battery of your car has a negative earth and a 12 volt rating. The battery in the other car must be the same voltage and also have a negative earth. The battery capacity of the charged battery must not be substantially lower than that of the discharged battery. So, check the specifications in the other car's owner manual to see if it complies. Serious injury or damage may result if the wrong type of battery is used.**

- **Position the two cars so that they are NOT touching and apply the park brakes. Automatic transmissions are to be placed in PARK and manual transmissions placed in NEUTRAL. Turn off ignition, all lights and accessories in both cars, except the hazard warning flasher or any lights needed for the work area.**

Connect the leads in the order shown in the picture:

1. Attach one end of the first jumper cable to the positive terminal of the charged battery (identified by "+" or "P" on the battery case, post or clamp).
2. Connect the other end of the same cable to the positive terminal of the flat battery.
3. Attach one end of the second jumper cable to the negative terminal of the charged battery (identified by "–" or "N" on the battery case, post or clamp).
4. Connect the other end to a solid stationary, metallic point on the car's engine that has the flat battery. DO NOT CONNECT DIRECTLY TO NEGATIVE POST OF THE BATTERY! The connection should be as far away from the flat battery as possible.



- **When making all connections take care that the clamps from one cable do not inadvertently touch the clamps on the other cable. Also, ensure that the jumper cables are not on or near pulleys, fans or other points that will move when the engine is started.**

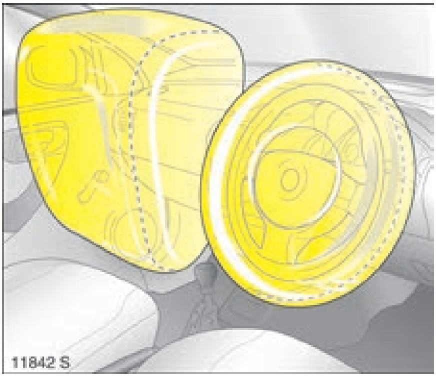
- **Start the engine in the car with the charged battery and run the engine at a moderate speed. Then start the engine in the car with the flat battery. Attempts to start the engine with the flat battery should be made at intervals of one minute and should last no longer than 15 seconds.**

- **After starting, allow both engines to idle for approximately 3 minutes with the leads still connected.**

- **Leave the engine running as you remove the jumper cables by reversing the above sequence exactly. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.**

AIR BAGS

Air bags are fitted for the driver and front passenger, identified by the word “AIRBAG” on the steering wheel and above the glovebox.



The air bags operate as a pair - they are triggered simultaneously.

If your car is involved in a severe front end collision, the air bags will inflate, assisting the seat belts to restrain forward body movement.

An operating noise may be heard and a small amount of smoke-like gas will be released. The gas is harmless and does not indicate malfunction or fire.

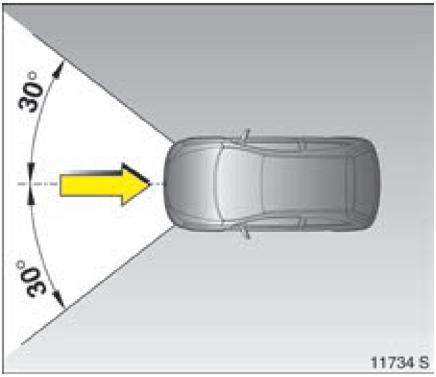
The air bags will then deflate - the whole process *only taking a moment*.

The air bags assist, but do not replace the seat belts. The air bags are not designed to inflate if the car is hit from the rear or side or the car overturns. *Seat belts (by law) should be worn by all passengers whenever the car is moving.*

Air bags inflate with great force. If you are too close to an inflating air bag it could seriously injure you. Seat belts help keep you in position for air bag inflation in a crash.

The air bags inflates with extreme rapidity. It is therefore important that seats are correctly adjusted. Adjust the driver’s seat to suit the driver’s height so that the driver is sitting upright with slightly bent arms when holding the upper spokes area of the steering wheel. The passenger seat should be as far back as possible, with the back rest upright.

The light on the instrument panel will glow for a few seconds when the ignition is switched ON. This is to indicate that the air bags are operational. If the light *does not* show when the ignition is switched to ON, or if it comes on when driving, you should contact your Holden Dealer, as they may not function correctly, especially in an accident.



Air bags will inflate if the car is struck hard within the non-shaded section. Air bags will not inflate if the car is struck from the side, rear, or in some rollovers...always wear a seat belt.

AIR BAGS cont.

After use the whole air bag system will have to be replaced. It is recommended that the work be done by your Holden Dealer.

The system should also be inspected by a Holden Dealer if the steering wheel or dash board area is scratched, cracked or damaged. Remember that the horn pad must not be covered with adhesive or any other material, as this may hinder air bag operation.

As a passenger's side air bag is fitted, the dash board area must be kept clear, with nothing around this area or hanging from the sun visor.

The electronics controlling the air bag system and belt pre-tensioners are located in the centre console. To prevent malfunctions, don't place magnetic objects in the immediate vicinity of the console.

Extensive design and testing has gone into the air bag system. It is extremely reliable and has little chance of accidental inflation. It should however, be treated with respect. Any careless or unskilled interference with the system could lead to its failure or to accidental inflation. Any work to the electrical system, steering column, dashboard area, steering wheel or air bag system should *only* be carried out by an authorised Holden Dealer.

BULL BAR NOTE: Fitting a "bull bar", or making other modifications to the front of the car, may change the impact speed which would normally cause the air bag to inflate, reducing its effectiveness. Bull bars should not be fitted to cars operating in suburban areas, as they increase the risk of injury to a pedestrian in the event of a collision. Bull bars are only recommended for country/outback areas, where additional protection from straying animals is required. Please remember that defensive driving and limiting driving speed to the road conditions is always the best approach, particularly where road side signs indicate wildlife is abundant.

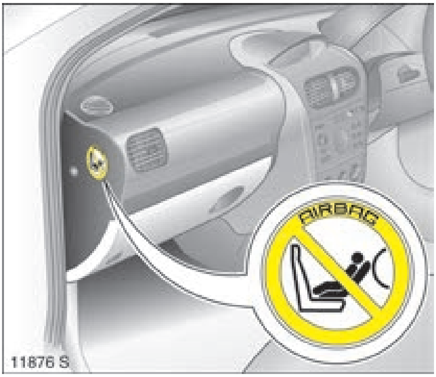
Passenger's side air bag and child restraints

CAUTION:

NEVER install a rear-facing child restraint in the front seat of a car with a passenger's side air bag. The child could be seriously injured if the passenger's side air bag inflates, as the child's head would be very close to the inflating air bag.

Where legally allowable, you may install a forward-facing child restraint in the front seat, but ALWAYS move the passenger seat as far back as it will go.

It is always better to install a child restraint in the rear seat.



BULB REPLACEMENT

When replacing a bulb, turn off the related switch.

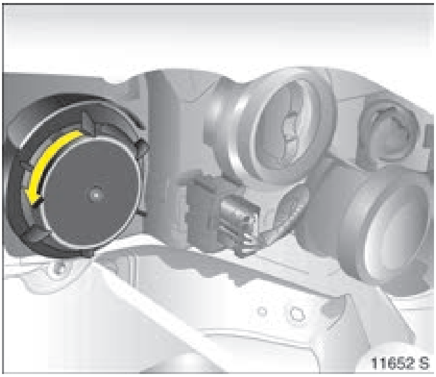
Do not touch new bulbs with bare hands. Greasy fingers will cause stains, which evaporate, and result in a dull light. Grease spots on Halogen bulbs will, within a short time lead to bulb failure. Inadvertently stained bulbs may be cleaned with tissue paper, or a clean, non-fuzzy cloth, using alcohol or white spirits.

When replacing bulbs do not exceed the wattage given on the defective bulb base.

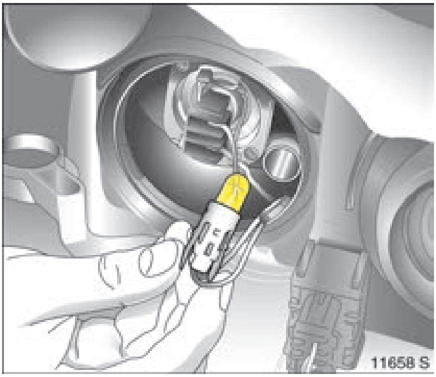
*Detailed procedures for headlight aiming are given in the relevant service manual for your car. However, because headlight aiming is a safety item it is recommended that you have it carried out by your Holden Dealer. On cars fitted with headlight range adjustment, the headlight aiming must be carried out with the switch in position **0.***

Front parking lights

1. Open bonnet and engage support.
2. Rotate headlight cap anti-clockwise and remove from headlight housing.



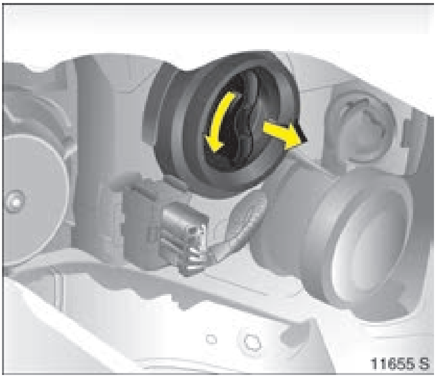
3. Press lugs on bulb holder together and remove holder from headlight reflector.
4. Remove bulb from holder.
5. Insert new bulb.
6. Insert holder in reflector and install cap into headlight housing.



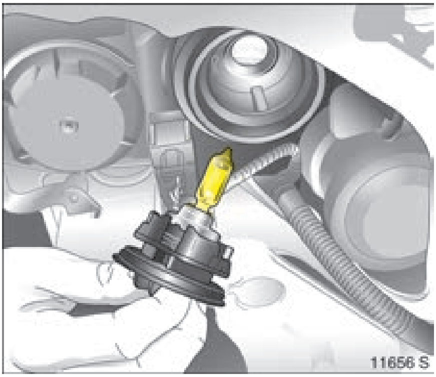
BULB REPLACEMENT cont.

Headlights, low beam

1. Open bonnet and engage support.
2. Rotate bulb holder anti-clockwise and remove from reflector.



3. Detach bulb from bulb holder and install new bulb without touching the glass.

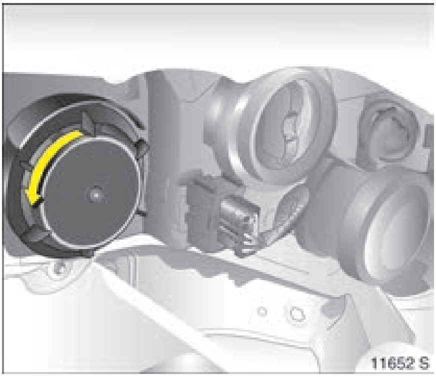


4. Install holder into reflector ensuring that the two lugs on the holder engage in the recesses of the reflector.
5. Rotate the bulb holder clockwise as far as it will go.

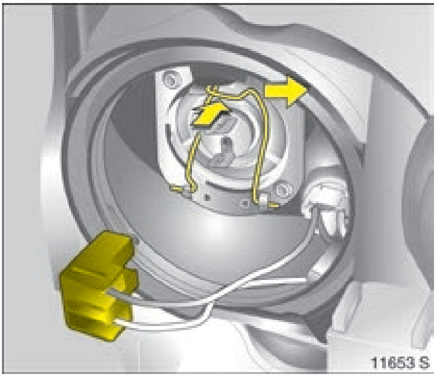
BULB REPLACEMENT cont.

Headlights, high beam

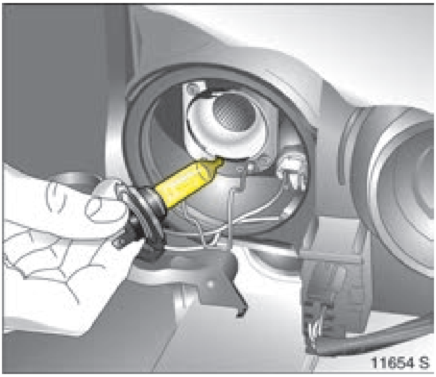
1. Open bonnet and engage support.
2. Rotate headlight cap anti-clockwise and remove from headlight housing.



3. Remove bulb connector from bulb.
4. Disengage spring wire clip from retaining lugs by moving it sideways and swivelling downwards.
5. Remove bulb from reflector housing.



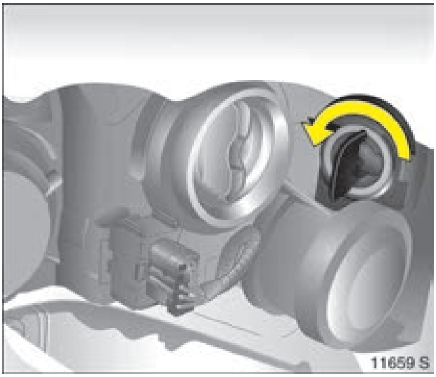
6. Install new bulb without touching the glass and with three bulb holder locating lugs correctly positioned in reflector recesses.
7. Engage spring wire clip to reflector.
8. Install cap into headlight housing and rotate clockwise.



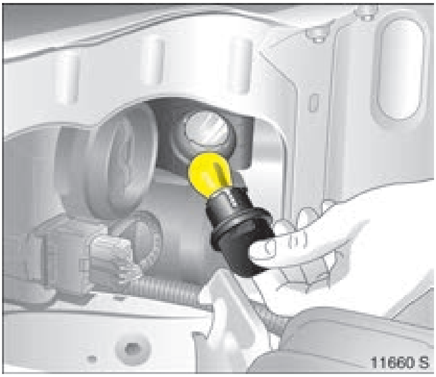
BULB REPLACEMENT cont.

Front turn signal lights

1. Open bonnet and engage support.
2. Rotate bulb holder anti-clockwise and disengage.



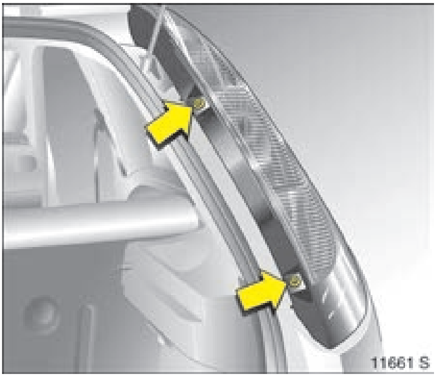
3. Press bulb into holder slightly, turn anti-clockwise and remove.
4. Insert new bulb and engage holder in reflector by turning.



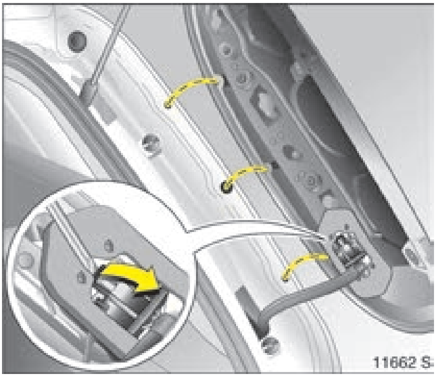
BULB REPLACEMENT cont.

Tail, brake, rear turn signal, reverse lights

1. Unscrew the two screws from the rear lens assembly using a screwdriver.



2. Pull the lens assembly rearward to disengage it from its locking elements.
3. Disengage the cable connector from the lens assembly using a screwdriver and remove it from the assembly.



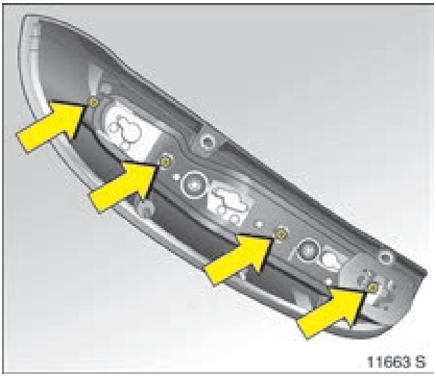
4. Unscrew the four screws from the bulb mounting using a screwdriver. Remove the bulb mounting from the lens assembly.

   Bulb sequence, from top to bottom:

   Turn signal light

   Brake light /tail light (two filaments)

   Reverse light

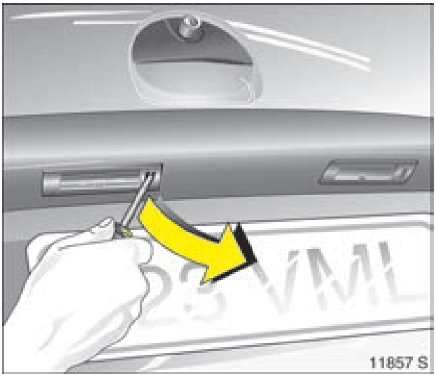


5. Remove bulb from holder.
6. Insert new bulb, engage bulb holder in the lens and secure with screws.
7. Engage cable connector with lens assembly.
8. Align fixing pins of lens assembly with body holes, push lens assembly onto body and secure with two screws.

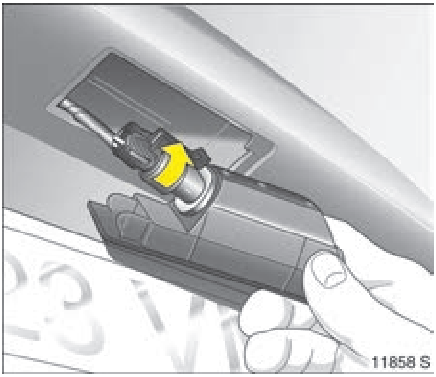
BULB REPLACEMENT cont.

Number plate light

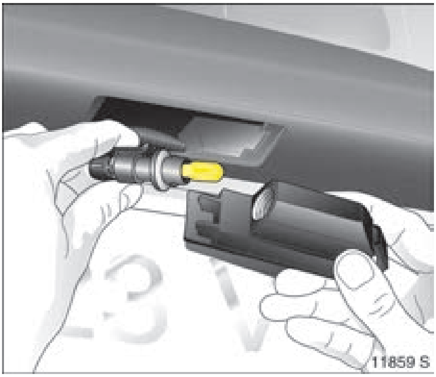
1. Insert screwdriver vertically into the side of the lens on right-hand side, press towards the right and disengage spring.
2. Remove the number plate light downwards and clear of the rear bumper.



3. Rotate bulb holder anti-clockwise and remove from the lens.



4. Remove bulb from holder.
5. Insert new bulb.
6. Insert the holder into the lens and rotate clockwise to lock in place.
7. Insert lens into the rear bumper.



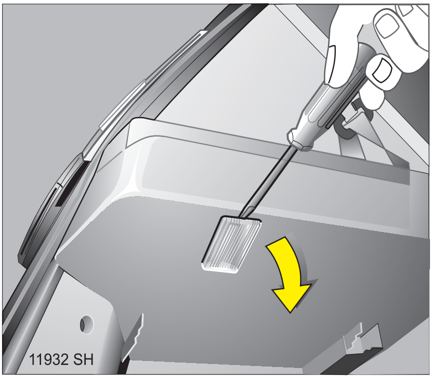
BULB REPLACEMENT cont.

Rear reading light (if fitted), and luggage compartment light

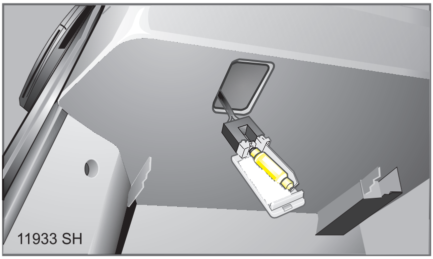
Before removal, close the doors or make sure that the contact switch is kept depressed so that the light is not live.

1. Carefully prise light out of trim, using a screwdriver.

   On rear interior light with reading light, lever lens out of housing.



2. Press bulb slightly towards spring clip and remove.
3. Insert new bulb.

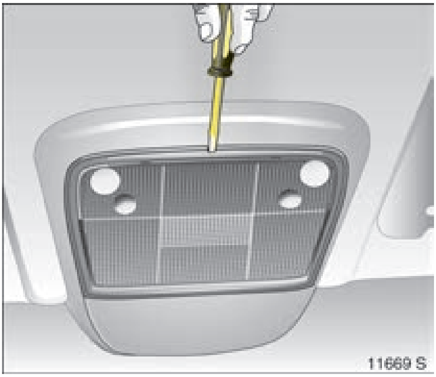


BULB REPLACEMENT cont.

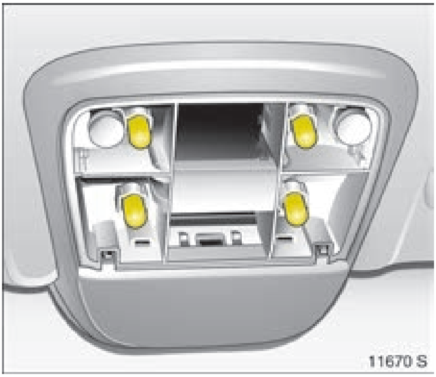
Front courtesy light and front reading lights (if fitted)

Before removal, close the doors or make sure that the contact switch is kept depressed so that the light is not live.

1. Using a screwdriver, lever the lens out of housing.



2. Remove bulb from socket.
3. Insert new bulb.
4. Mount lens and engage into position.

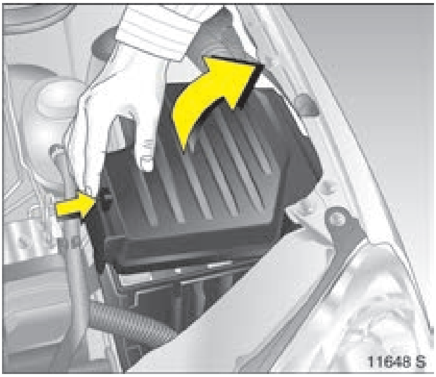


Bulb replacement procedures for the following lights should be carried out by a Holden Dealer:

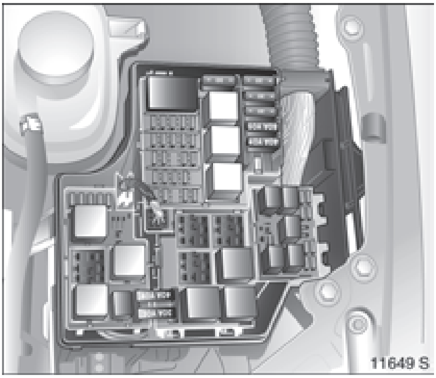
- Centre high mounted stop light
- Fog lights
- Instrument lights
- Information display lights

FUSES

The fuses are located between the passenger side headlight and the coolant surge tank. To open the fuse compartment, press the retaining clip towards the compartment lid and lift the lid upwards.

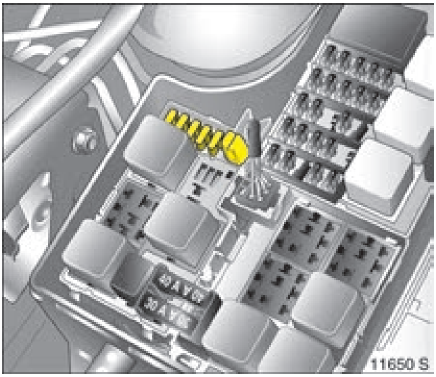


Remove the lid completely to access the fuses.

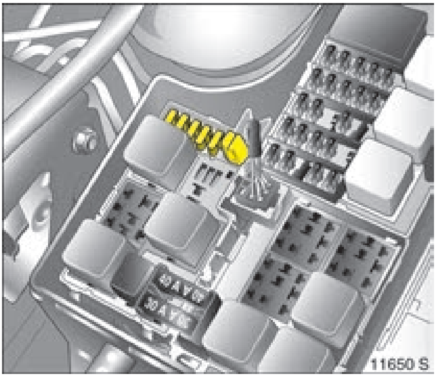


It is recommended that a complete spare set of fuses are carried. There is provision in the fuse box for the storing of spare fuses.

It should be noted that some circuits may be protected by more than one fuse.



FUSES cont.



To help in replacing fuses, there is a special fuse gripping tool (white) located beside the spare fuses in the fuse box.

Before replacing a fuse, turn off the respective switch and remove the ignition key.

Slot the fuse gripping tool onto the fuse and withdraw.

A defective fuse can be recognised by its melted wire. A new fuse should only be installed after the cause of the trouble has been located and eliminated.

Only fuses of the specified rating should be installed. The rating is given on all fuses.

COLOUR	RATING
Light brown	5 amps
Dark brown	7.5 amps
Red	10 amps
Blue	15 amps
Yellow	20 amps
Green	30 amps
Pink (Maxi-fuse)	30 amps
Orange	40 amps
Red (Maxi-fuse)	50 amps
Yellow (Maxi-fuse)	60 amps
Black (Maxi-fuse)	80 amps

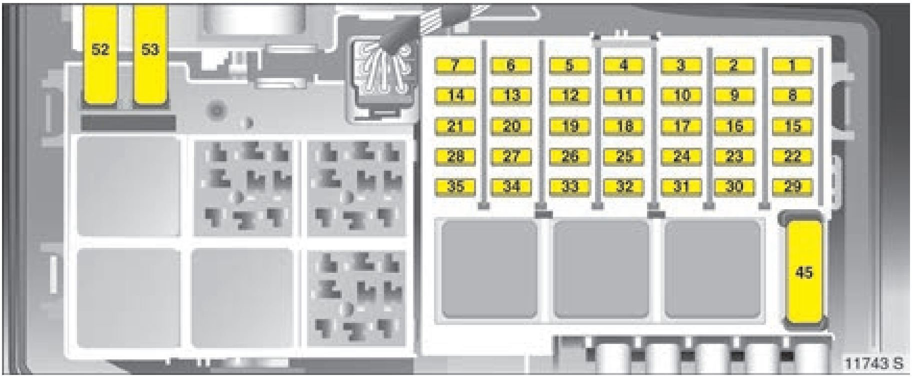
CAUTION:

When replacing a fuse be sure to use a fuse of the specified amperage. Never install a wire or similar device to replace a fuse, as it could damage electrical components and may cause a fire hazard to your car.

FUSES cont.

1	Central control unit	7.5A
2	Engine control unit	7.5A
3	Instruments, horn, information display, hazard warning flashers	7.5A
4	Number plate light	5A
5	–	
6	Automatic transmission	10A
7	–	
8	Starter	10A
9	Fuel injection system, fuel pump	20A
10	Horn	10A
11	Central control unit	15A
12	Information display, radio	15A
13	–	
14	–	
15	Windscreen washer system	10A
16	Courtesy lamp	5A
17	Central control unit	20A
18	–	
19	–	
20	–	
21	–	
22	Central control unit	20A
23	Windscreen wipers	20A
24	Radio, information display courtesy lamp, instruments, EPS, immobiliser	5A
25	Brake lights	10A
26	Cigarette lighter	10A
27	–	
28	–	
29	Windscreen washer system	20A
30	Engine control unit	15A
31	Air conditioning system	15A
32	Heated rear window	10A
33	–	
34	–	
35	Radio	5A
36	Dipped beam (left)	10A
37	Dipped beam (right)	10A
38	Park and tail lights (left)	5A
39	Park and tail lights (right)	5A
40	–	
41	–	
42	Fog lights	10A
43	Headlights – high beam (left)	10A
44	Headlights – high beam (right)	10A
45	Air conditioning	30A
46	Engine control unit	20A
47	Heated rear window	30A
48	Starter	30A
49	EPS	50A
50	–	
51	–	
52	Cooling fan (without air conditioning)	40A
53	Air conditioning cooling fan	30A

FUSES cont.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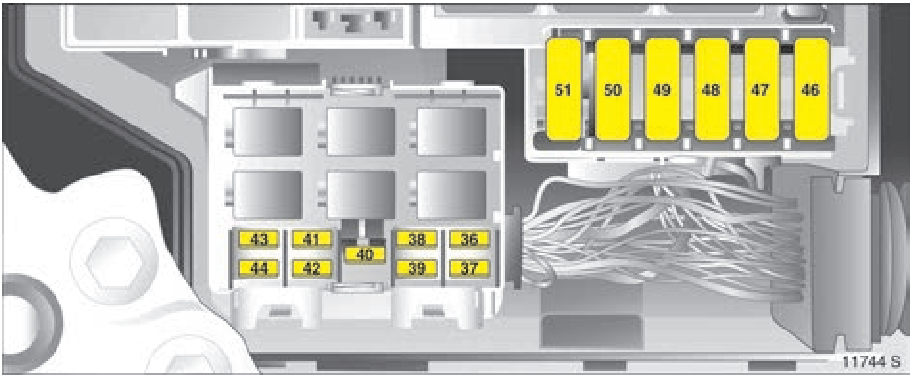
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CHAPTER 7

Weekly checks

Page

7-2 Miscellaneous checks
7-3 Engine oil level
7-4 Engine coolant level
7-5 Brake fluid level
7-5 Auto transmission fluid level
7-6 Washer fluid level
7-6 Battery
7-7 Tyres

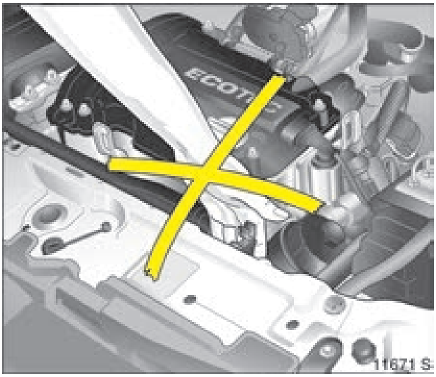
MISCELLANEOUS CHECKS

As well as taking your car to be serviced (refer to Chapter 12) there are a few simple, weekly checks that the owner/operator is required to make. These are shown on the following pages.

The following checks should also be regularly done to ensure proper safety and dependability of your car.

CAUTION:

The engine cooling fan can start working unexpectedly, even when the engine is not running. To avoid injury from the fan, make sure the ignition key is switched OFF, so that the fan cannot start operating.



CAUTION:
Electronic ignition systems have a high ignition power. Do not touch the ignition system; this could be highly dangerous.

CHECK:

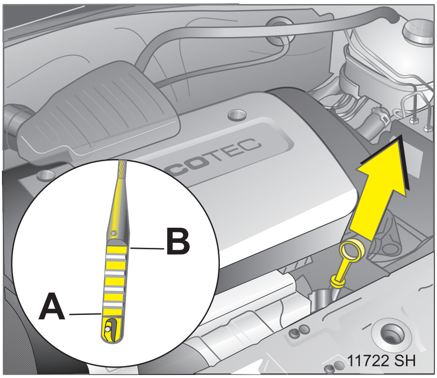
- that all exterior lights are working and that their appropriate interior indicators light up when in operation.
- mirrors and glass are clean and not scratched.
- automatic transmission T-bar indicator correctly lines up next to the gear selected.
- the aim of water on the windscreen or tailgate and condition of the wipers.
- demister operates.
- condition and operation of all seat belts (give it a sharp tug to make sure that it will ‘lock’ if necessary) and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

ENGINE OIL LEVEL

It is normal for every engine to consume some oil. For this reason the engine oil level should be checked every 500 km or before starting a long trip.

The oil level must be checked with the car parked on level ground and with the engine (which must be at normal operating temperature) switched off. Wait at least two minutes before checking the level to allow the oil to settle. If the engine is cold the oil may take considerably longer to drain back.

To check the level, remove the oil dipstick, wipe it clean and re-insert it as far as it will go. Pause for a second then withdraw the dipstick and look at the oil level on it.

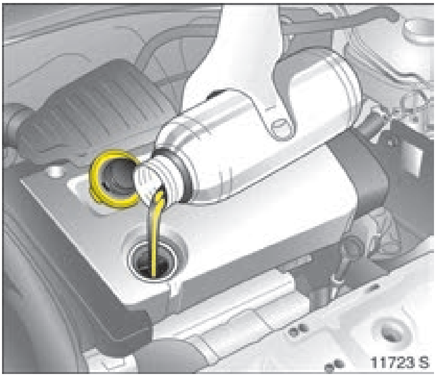


The oil level should be maintained between the low and full levels (**A** and **B**).

If you need to add oil, use engine oil confirming to ACEA classification A3-98 or B3-98, viscosity grade 5W-40 or 10W-50.

To add oil, undo the cap on top of the engine. Add enough oil to bring the oil level to the full level (**B**) . As a guide, the distance between the marks represents 1 litre of oil.

Wait a few minutes for the oil to settle. Then check the oil level again. If the level is still too low, add more oil. If the level is correct, replace the oil cap and the dipstick. Clean up any spilt oil.

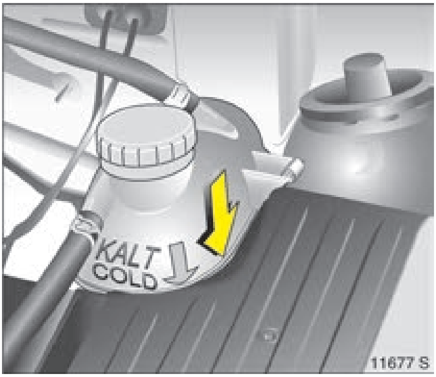


Note that the oil level should not go above the *top* mark on the dipstick.

Oil consumption should not be judged until the car has run several thousand kilometres. It may take this long for oil consumption to stabilise.

NOTE: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended. Their use will increase costs, may be detrimental to the operation of your car and may void your New Vehicle Warranty, to the extent that Holden considers the non-recommended fluid to have affected the specifications or quality of your Holden vehicle.

ENGINE COOLANT LEVEL



The level of coolant should be checked at least weekly. This is simply a matter of looking at the level in the plastic container when the engine is cold.

The level should be slightly above the KALT/COLD ⇩ mark when the engine is cold. The level rises when the engine is running and drops down again when the engine cools down. If the level falls below the KALT/COLD ⇩ mark, the coolant should be topped up to a little over the mark.

The coolant for your car is specified in Chapter 8 Specifications.

If topping up, first mix a solution of 50% coolant and 50% water. Failure to use the coolant meeting Holden's specification or maintaining the specified concentration may result in voiding your warranty.

In an emergency, plain water may be used temporarily in the cooling system until the correct coolant is obtained as soon as possible from the nearest Holden Dealer.

Remember to replace the coolant cap and tighten as far as it will go.

It should be noted that the specified coolant contains special corrosion inhibitors for the best corrosion protection of your engine and cooling system. This coolant also gives your cooling system greater hot weather protection by increasing the boiling point and in addition provides protection in cold weather conditions down to -30°C, provided the correct concentration is maintained.

If you regularly have to top up the cooling system, you should see your Holden Dealer.

CAUTION:

Corrosion inhibitors and antifreeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention. Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

Refer to Chapter 6 if engine overheats.

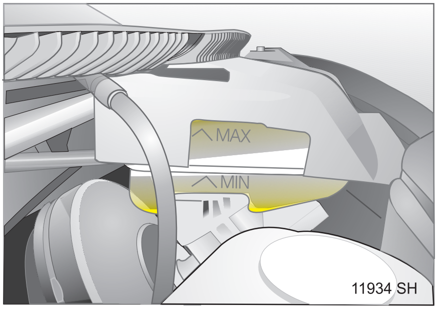
BRAKE AND AUTO TRANSMISSION FLUID LEVELS

Brake fluid level

The brake fluid in the master cylinder should be checked weekly. The master cylinder is located in the engine bay, on the driver's side of the car.

The fluid level, visible in the see-through master cylinder when standing at the driver's side of the car, should be maintained between the MIN and MAX level markings shown on the side of the master cylinder.

If the fluid is between these levels do not remove the master cylinder cap. Remember that brake fluid exposed to the atmosphere will quickly absorb moisture, which in turn lowers the boiling point of the fluid as well as increasing risk of corrosion of brake components.



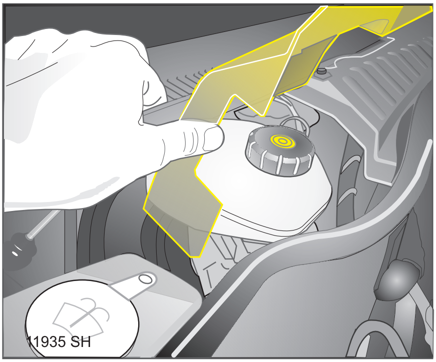
CAUTION:

Brake fluid is poisonous and corrosive. It will damage the paint finish of your car if spilt. If spillage occurs on car body, remove by pouring water over affected area as soon as possible.

If fluid needs to be added, firstly, raise the plastic master cylinder cover (the engine compartment weather seal will have to pulled towards the front of the car to allow the cover to be raised). Secondly, clean around the filler cap. Finally, top up the master cylinder reservoir with heavy duty brake fluid which meets S.A.E. Specification J1703, DOT 4.

Remember to secure the cap and clean up any spilt fluid.

NOTE: Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.



If the master cylinder requires constant topping up, it could indicate that a malfunction exists and you should immediately see your Holden Dealer.

Automatic transmission (if fitted) fluid level

The fluid level for automatic transmission will be checked for you when your car is taken to your Holden Dealer for servicing, refer to Chapter 12. The automatic transmission fluid level does not require checking by the driver in between these scheduled services.

WASHER FLUID LEVEL AND BATTERY

Washer fluid level

As the washer fluid is constantly used the level should be checked weekly and topped up as required.

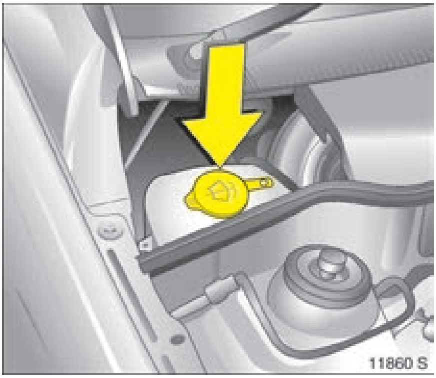
The washer container is for both the windscreen and tailgate washers.

The washer container is located under the bonnet on the driver's side, beside the brake master cylinder.

To fill, open the flip top cap.

For a crystal clear windscreen, a small amount of Optikleen (Part No. 92140005 from your Holden Dealer) can be added. Do not use ordinary soap or detergent. These not only froth up but will also damage the wiper rubbers and may also block the washer jets.

Remember to secure the cap after filling.

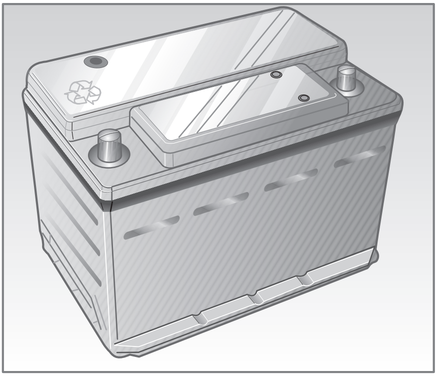


Battery

Your car is fitted with a maintenance free battery, which means that the fluid level does not need to be checked.

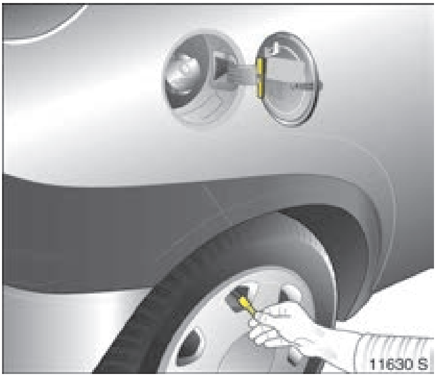
Note:

> You should never disconnect the battery when the engine is running.
>
> If removing the battery for recharging, first disconnect the negative cable, then the positive cable. Never charge the battery while still connected to the car. When reconnecting, first connect the positive cable to the positive post of the battery, then the negative cable to the negative post of the battery.



TYRES

Tyre air pressure



Checking the air pressure of your tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of your tyres.

To make sure your car will handle at its best – check the pressures weekly. For constant long distance or rough road travelling, daily checking is recommended.

For correct pressure for your tyres, refer to the tyre placard, on the inside of the fuel filler flap.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. The pressure should be checked when the tyres are cold (stationary for more than 3 hours). If they must be checked immediately after driving, increase the pressure shown on the placard by 10%.

Always use a tyre pressure gauge to check the tyres - simply looking at the tyres is not sufficient.

If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blowout at high speeds.

Remember to put back any valve dust caps or extensions, if so equipped. This stops dirt and moisture from fouling the valves.

Use the valve cap wrench to make unscrewing the valve caps easier. The wrench is located on the inside of the fuel filler flap.

When checking the tyre air pressure, take a look at the condition of the tyre tread and inspect for stones or abnormal wear.

Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and unevenly. It can also cause the car to “pull” to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear such as cupping and flat spots.

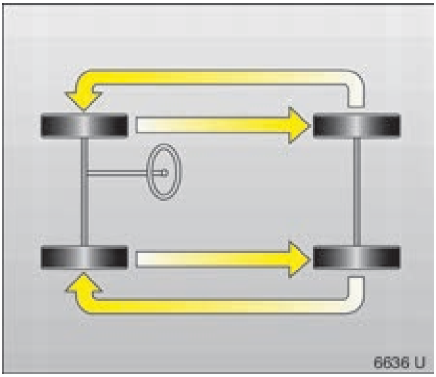
If you have any reason to suspect that either of the above problems exist then have a wheel alignment and balance check done by your Holden Dealer.

TYRES cont.

Tyre inspection and rotation

Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment and balance, tyre pressures etc.

Tyre condition will be checked for you when you take your car to be serviced by your Holden Dealer, who will be able to diagnose any unusual signs of wear. If the tyres are rotated it is recommended that the balance be checked at the same time.



Heavy treads

Caution must be exercised when using tyres with heavy treads, including tyres designed to gain traction in bad weather conditions. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer.

Any doubts concerning the fitness of the tyres on your car for the purpose you require should be referred to your Holden Dealer.

Wheel replacement

When replacing wheels for any reason, ensure that the new wheels are equivalent in diameter, rim width, offset and mounting configuration to those originally installed in your car.

NOTE: Replacing your factory fitted wheels and tyres with non specified wheels and tyres may affect your warranty as well as your motor car insurance policy.

Tyre traction

CAUTION:

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other material is on the road surface. Driving practises and speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of traction, which adversely affects control and stopping ability. To reduce the possibility of traction loss, the following precautions should be observed.

1. Reduce speeds during rainstorms, when roads are slushy or if the road has standing water or puddles.
2. Replace tyres when tread wear indicators are visible.
3. Check that tyres are properly inflated.

TYRES cont.

Tyre replacement and repair

CAUTION:

Do not mix different tyre construction types, such as radial and cross ply, on your car except in emergencies, because your car's handling could be affected and may result in loss of control.

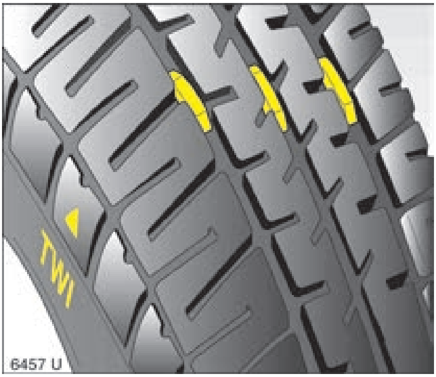
When replacing tyres you should use the same size, load rating and construction type as the original tyres on your car. Refer to the tyre placard on your car for tyre size and load rating. Using a different size or type of tyre may affect such things as ride, handling, speedometer/odometer calibration, ground clearance and tyre clearance to the body or the chassis.

Tyres with a higher speed rating and/or maximum load rating in excess of that listed are also acceptable as replacements provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:

1. The tyres are worn to the point where the tread wear indicators, as shown, appear or the cord or fabric is showing.
2. The tread or side wall is cut, split, or cracked deep enough to expose the cord or fabric.
3. The tyre has a bump or bulge in it, indicating some kind of internal damage.
4. The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.



If in doubt about the extent of damage to the tyre, have it removed from the wheel and examined by a tyre specialist.

If a pressure loss occurs while driving, do not attempt to drive on the deflated tyre more than is necessary to stop safely. Driving even a short distance on a deflated tyre can damage it and the wheel beyond repair.

When an object which has punctured the tyre is removed, repairs are to be made in accordance with the tyre manufacturer's recommendations.

CAUTION:

Tyres which have been retreaded or improperly repaired cannot be operated safely at high speeds. Therefore, their use is not recommended.

CHAPTER 8

Specifications

Page

8-2 Engine specifications
8-3 Transmission specifications
8-3 Dimensions
8-3 Battery
8-4 Identification labels
8-5 Tyre placard

SPECIFICATIONS

Engine type	Z14XE, 16 valve DOHC
Piston displacement	1,389 cc
Compression ratio	10.5:1
Bore	77.6 mm
Stroke	73.4 mm
Power *	66 kW @ 6,000 r.p.m. (91 R.O.N. fuel)
Torque *	120 Nm @ 4,000 r.p.m. (91 R.O.N. fuel)
Oil specification	ACEA service classification A3-98/ B3-98 Viscosity grade 5W-40 or 10W-50
Refill oil capacity	3.5 litres approx. (including filter)
Fuel tank capacity	45 litres
Coolant capacity	6.1 litres (manual transmission) 6.5 litres (automatic transmission without air conditioning) 6.7 litres (automatic transmission with air conditioning)
Coolant specification	50% water and 50% Dex-Cool coolant conforming to GM6277M specification

* The engine has been developed for operation on regular, unleaded (91 R.O.N.) fuel. Slightly improved performance can by achieved when this engine is operated on premium unleaded (95 R.O.N.) fuel.

GENERAL SPECIFICATIONS

Transmission

	5 speed manual transmission	4 speed auto transmission
Fluid capacity	1.6 litres	5 litres (total)
Fluid type	Gear oil, meeting Holden spec. No. HN2354 (Castrol SMX-O or equivalent)	Auto trans fluid meeting Holden spec. No. HN2287 (Esso JWS 3305G)
Clutch fluid type	Heavy duty brake fluid, DOT 4, SAE spec. J1703	

Dimensions

		2 DOOR	4 DOOR
Overall length		3,817 mm	3,817 mm
Overall width, including mirrors		1,955 mm	
Overall height, at curb weight		1,440 mm	
Track	Front	1,417 mm	
	Rear	1,408 mm	
Wheel base		2,491mm	

Battery

Volts	12
Amp. hours	66

IDENTIFICATION LABELS

Vehicle identification number (I.S.O.V.I.N.)

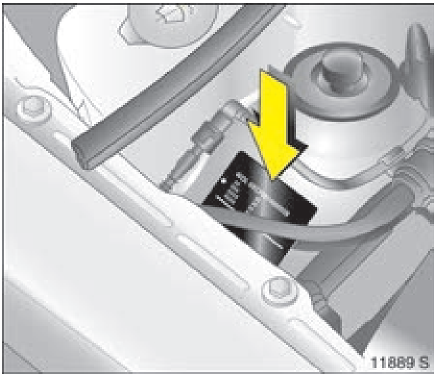
A unique I.S.O.V.I.N. Number (example below) has been allocated to your car. This number can be used for model identification when purchasing parts.

W0L 0 XC F08 1 4 000201

Sequential Production Serial Number
Assembly Plant Code, can be alpha or numeric
Model Year Code: 1=2001, 2=2002, 3=2003
Body Style: F08=2 door, F68=4 door
X=Model Series, C=Variant
One zero (blank)
World Manufacturer Identifier

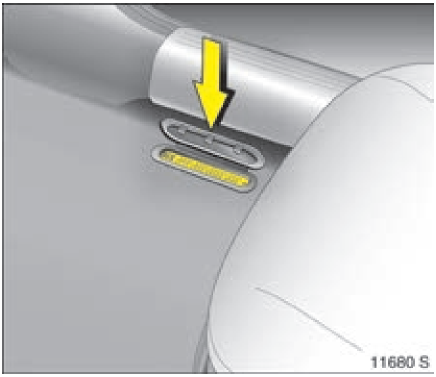
Vehicle identification number plate

The I.S.O.V.I.N. plate is located on the driver's side suspension tower, in the engine compartment.



Vehicle identification number stamp

This stamping shows the same I.S.O.V.I.N. number as displayed on the I.S.O.V.I.N. plate. It is stamped onto the body floor panel and is located under a hinged cover, at the right side of the driver's footwell.



IDENTIFICATION LABELS cont.

Emission label

This label shows the relevant tune-up information required to maintain minimum exhaust emissions. It is located on the underside of the bonnet, on the driver's side.

Engine number

Individual identification numbers are stamped onto the engine. This number is located on the front of the engine block adjacent to the oil filter.

Safety compliance plate

The SAFETY COMPLIANCE plate is located inside the engine bay, attached to the firewall on the driver's side.

Holden identification plate

The HOLDEN IDENTIFICATION plate is located on the passenger's side of the radiator support panel. The Holden number is used for warranty identification, Roadside Assistance identification etc.

Tyre placard

The TYRE PLACARD is located on the inside of the fuel filler flap.

CHAPTER 9

After Sales

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9-4 Parts and Accessories Warranty
9-5 Warranty Questions & Answers
9-8 Roadside Assistance
9-10 Customer Assistance
9-11 For New Zealand Holden Owners
9-12 Australian Holden Dealers
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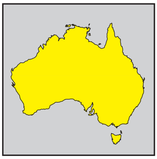
Note: Dealership names and details may change after the printing of this Handbook. The list contains both Authorised Holden Dealers and Authorised Holden Service Operations.

NEW VEHICLE WARRANTY CERTIFICATE

New Vehicle Warranty application

This Warranty is given by Holden Ltd, A.C.N. 006 893 232, ("Holden"). The Warranty applies to the vehicle identified on the inside front cover of this Owner's Handbook. It is provided to the original and subsequent owners/operators driving the vehicle within Australia during the Warranty Period.
This Warranty is given in addition to all rights conferred by law on that person.



Australian vehicles

This Warranty is only applicable to vehicles purchased and operated in Australia.

Owners of vehicles purchased in Australia but operated overseas should consult the local dealer in the country of operation about any Warranty applicable to their vehicle. This Warranty does not apply for Holden vehicles exported overseas. Similarly, this Warranty is not provided for vehicles purchased overseas and imported into Australia.

Repairs covered

Subject to the exclusions shown on the following page, this Warranty covers the correction, during the Warranty Period, of any vehicle defect related to materials or workmanship and advised to a Holden Dealer or Authorised Service Outlet, by repair or at Holden's option by replacement.

100,000kms
3
years

Warranty Period

The coverage commences from the date of delivery (or in the case of a demonstrator vehicle the date when the vehicle was first placed into service by the Dealer). The coverage expires at the end of the period of 3 years after the commencement date or after the vehicle has travelled 100,000 kilometres, whichever occurs first.

No charge

Warranty work undertaken (including parts and labour) will be carried out at no cost to the vehicle owner. However, this work should not be confused with servicing specified in the Maintenance schedule in Chapter 12 of this Owner's Handbook for which a charge is payable.

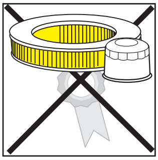
NEW VEHICLE WARRANTY CERTIFICATE cont.

Warranty exclusions

- **Damage**

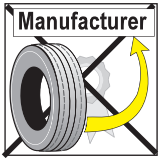
Your Warranty does not extend to the following damage: Damage caused by an accident, fire, theft or moving objects striking the vehicle.

Damage caused by industrial fallout, chemicals or sealants. Damage caused by atmospheric fallout or flood, hail, salt, etc.



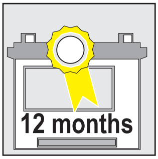
- **Maintenance items**

Services such as, brake adjustment, replacement of filters, wiper rubbers etc., which are required as part of normal vehicle maintenance, refer Chapter 12.



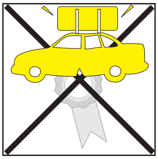
- **Tyres**

The tyres (and tubes where applicable) fitted to your vehicle are not covered by this Warranty. However, they may be covered by the tyre manufacturer.



- **Batteries**

Batteries are warranted for 12 months.



- **Misuse**

The warranty does not cover damage caused by:

(a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or neglect,

(b) operation of the vehicle after the defect is known,

(c) failure to carry out proper maintenance services,

(d) use of incorrect types and grades of fuel, oil or lubricants,

(e) alteration of the vehicle by anyone not authorised by Holden,

(f) fitting of parts or accessories not marketed by Holden,

(g) any work carried out on the vehicle by anyone except a Holden Dealer or authorised Service Outlet.

PARTS AND ACCESSORIES WARRANTY

Holden warrants Holden approved Parts and Accessories ("Parts" and "Accessories") for the periods and on the conditions set out below. The Warranty covers the correction, during the relevant Warranty Period, of defects in any such Parts and Accessories, by repair or at Holden's option by replacement.

- **Accessories installed to the new vehicle**

  Holden approved Accessories installed by a Holden Dealer or authorised Service Outlet to the new vehicle at the time of purchase are covered together with the New Vehicle warranty for the period of 3 years or 100,000 km, whichever occurs first.

- **Parts and Accessories installed after new vehicle delivery by a Holden Dealer or authorised Service Outlet**

  Parts and Accessories are covered for 2 years or 50,000 km (whichever occurs first). If the vehicle is still within the New Vehicle Warranty the Parts and Accessories are covered by the longer of:

  2 years/50,000 km (whichever occurs first)

  or

  the end of the New Vehicle Warranty.

  As an example, an Accessory installed in a 7 month old car would be covered until the end of the New Vehicle Warranty; an Accessory installed in a 2½ year old car would be covered until the end of 4½ years or a further 50,000 km from when the Accessory was installed.

- **Purchased at retail or trade**
  Parts and Accessories purchased at trade or retail and installed by other than a Holden Dealer or authorised Service Outlet are warranted for 1 year from the date of purchase. Please keep a receipt to support warranty claims.

  The Warranty does not cover the labour costs of removal/reinstallation of Parts and Accessories when installed or rectified by other than a Holden Dealer or authorised Service Outlet.

- Parts and accessories warranty exclusions

  The tyres (and tubes where applicable) are not covered by this warranty. However, they may be covered by the tyre manufacturer.

  Batteries are warranted for 12 months from date of purchase.

  Parts which are required as part of normal vehicle maintenance are warranted against manufacturing defect at the time of installation.

WARRANTY QUESTIONS

This section is designed to assist you in understanding the Holden Warranty provided with your new vehicle.

The following are some of the most frequently asked questions, for which detailed answers have been provided.

Q 1. How do I go about obtaining Holden Warranty service?

It is the responsibility of the Holden Selling Dealer to provide Holden Warranty service, therefore you should take your vehicle to the Holden Selling Dealer whenever Holden Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of this handbook will be required by the Holden Dealer.

Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the Holden New Vehicle Warranty?

You should contact the nearest Authorised Holden Dealer or Holden Customer Assistance Service (refer further in this chapter) as soon as possible, and arrange for that Dealer to carry out the required Holden Warranty Service.

Q 3. What should I do if, in an emergency, Holden Warranty service is required and an Authorised Holden Dealer is not available to provide such service at the time?

If, in an emergency, a repair, replacement or adjustment (covered by the Holden New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is not practical for you to go to an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the Authorised Holden Dealer who would normally provide you with Holden Warranty Service. You must also take your vehicle to the Authorised Holden Dealer for inspection of the service and/or completion of any required Holden Warranty service, as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Dealer or Holden Customer Assistance Service, prior to repairs being commenced.

Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden Warranty?

No, these items are not covered. Holden warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the Holden New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the Holden New Vehicle Warranty, but any claim based on those rights should be separately pursued.

WARRANTY QUESTIONS

Q 5. Will I have to pay for maintenance costs during the Warranty Period?

Maintenance costs are not covered by the Holden New Vehicle Warranty. The Maintenance Schedule in Chapter 12 specify the *minimum* maintenance required for your vehicle operating under normal conditions.

The Maintenance items (except where they are required as a result of defects in materials or workmanship) for which you will have to pay include:

- Engine tune-up, including spark plugs replacement.
- Replacement of all filters, engine and other belts, hoses, wiper blades, clutch linings.
- Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etc., after 1,500 km.
- Carbon and sludge removal.
- Maintenance servicing of emission control system devices.
- Adding to (or replacing) lubricants.
- Adding to (or replacing) air conditioning refrigerant, after 1,500 km.
- Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
- Wheel balancing - after 5,000 km.
- Wheel alignment.
- De-dusting or de-glazing of brake linings or pads - after 1,500 km.
- Brake lining wear or damage.
- Brake disc pad or disc wear.
- Battery recharging.
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment - after 1,500 km.
- Door, or bonnet lock adjustments.
- Glass or channel adjustments - after 1,500 km.
- Body rattle, squeaks and general tightening of bolts, fasteners and fittings - after 1,500 km.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.
- Normal wear and tear to trim components.

Q 6. Are my tyres covered by the Holden New Vehicle Warranty?

No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. Any Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer’s warranty with the tyre manufacturer’s representative.

WARRANTY QUESTIONS

Q 7. Will I have to pay for any costs or expenses in connection with the provision of Holden Warranty service?

All parts and labour used in carrying out Holden Warranty service at the premises of the servicing Holden Dealer are free of charge. Whenever Holden Warranty service is to be carried out by the servicing Holden Dealer it is your responsibility to deliver your vehicle to the servicing Holden Dealer's premises.

If, as a result of a defect which is covered by the Holden New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required Holden Warranty service, Holden will accept reasonable towing costs to move your vehicle to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holden Dealer and/or Holden Customer Assistance Service (refer page 10 of this Chapter) to obtain guidance.

Q 8. Would my vehicle's engine benefit from fuel additives, oil additives or coolant additives not marketed by Holden ?

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives is not recommended; their use will not only increase operating costs, but may also be detrimental to the operation of your vehicle.

Only the fluids and lubricants referred to in this handbook should be used.

UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN PRODUCTS

No Holden Dealer or other person is authorised or permitted to give or make any statement, assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden product or in connection with the supply of any Holden product, which is at variance with any written statement, assertion or undertaking on any of these subjects given or made by Holden in its published sales literature, and Holden does not accept any such unauthorised action.

ROADSIDE ASSISTANCE

3 YEAR
24 HOUR ROADSIDE ASSISTANCE

Our commitment to your satisfaction

Holden’s Roadside Assistance is part of the unequalled commitment by Holden to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing and now beyond to the open road, Australia wide.

We hope the need never arises, but if it does, we’ll be there to help through Holden Roadside Assistance.

How does Holden Roadside Assistance work?

Holden Roadside Assistance is provided by Holden Ltd., and delivered by the collective resources of the Australian Automobile Clubs and Associations (the constituents of Assist Australia) the AA.

Which vehicles are covered by the service?

As of 1st November 1993 all new Holden passenger and light commercial vehicles are covered for 36 months from the date of first registration.

Holden Roadside Assistance is extended to private and business vehicles, taxis, rental companies, all government and fleet operators.

What will Holden Roadside Assistance do for me?

Holden Roadside Assistance is designed to get you mobile on any road that is trafficable to normal two wheel drive vehicles. In the event of the unexpected happening, from your keys being locked in your car to mechanical and accident advice, help is readily available by simply calling the toll free number 1800 817 100.

All Holden luxury vehicles receive the added benefits of Holden Roadside **Ultra** Assist which includes accommodation, alternative transport, rental car, assistance in case of accident, theft and medical emergency and Australia wide vehicle recovery.

Can I upgrade to Roadside Ultra assist?

Yes, owners can upgrade to Holden Roadside **Ultra** Assistance for a fee by dialling 1800 645 668.

ROADSIDE ASSISTANCE cont.

When do the benefits begin?

Cover begins from the date of first registration. An interim card entitles you to immediately receive all the benefits of Holden Roadside Assistance.

Where can I get Roadside Assistance?

Holden Roadside Assistance is available to you at home, or at the roadside, anywhere in Australia, should you need it. In remote or sparsely populated areas you may experience delays in obtaining Roadside Assistance due to your location, the availability of the service provider and accessibility.

Is there a membership or joining fee?

No, Holden Roadside Assistance is complimentary with every new Holden passenger vehicle and light commercial vehicle for 36 months from the date of first registration.

What will Holden Roadside Assistance cost me?

Materials, fuel and spare parts must be paid for at the time of service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden’s warranty can be claimed by contacting your local Holden Dealer.

What happens if I sell my vehicle?

Holden Roadside Assistance stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the balance of the Holden Roadside Assistance. The new owner simply registers for the service by using the change of ownership form supplied in the Roadside Assistance booklet.

How do I call for assistance?

Simply call Holden Roadside Assistance toll free on 1800 817 100 from anywhere in Australia. For further information regarding the service and full terms and conditions, refer to the Roadside Assistance Kit in the glovebox or call the toll free Customer Assistance Service Line on 1800 033 349.

CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation or servicing of your vehicle will be handled by your Holden Dealer's Sales and Service Department.

We realize however, that, with the best intentions, misunderstandings do occur sometimes.

☞ Therefore, we suggest you discuss any concern with one of the Holden Dealer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager - go to the General Manager or to the Dealer Principal.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

☎ The Australian Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is **9646 5466**. Outside the Melbourne Metropolitan area, the number is **1800 033 349**.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden Service Parts Operations on (03) 9797 7341.

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

✉ The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

✍
- Your name and address
- Telephone numbers, both private & business
- Servicing Dealership's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of this Handbook
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this Handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

FOR NEW ZEALAND HOLDEN OWNERS

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand. Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glovebox wallet.

For your convenience, a list of New Zealand Dealers is provided at the end of this Chapter.

☎ New Zealand Assistance can be reached on:

0800 HOLDEN (0800 465 336)

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Assistance.

✉ If you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne,
Australia, 3001.

AUSTRALIAN HOLDEN DEALERS

N.S.W. Metropolitan

ARNCLIFFE
Suttons Motors Arncliffe P/L
93 Princes Highway
P: (02) 9335 9000 FAX: (02) 9335 9006

ASHFIELD
Muirs Holden
252 Parramatta Road
P: (02) 9798 8888 Fax: (02) 9799 7010

BALGOWLAH
Peninsula Holden Balgowlah
164 Condamine Street
P: (02) 9949 1888 FAX (02) 9949 7237

BANKSTOWN
Peninsula Holden Bankstown
466 Chapel Road
P: (02) 9790 1234 Fax: (02) 9790 0033

BLACKTOWN
West City Holden
120~128 Sunnyholt Road
P: (02) 9622 7333 Fax: (02) 9671 7394

CAMDEN
Camden Holden
33 Edward Street
P: (02) 4655 5000 Fax: (02) 4655 5001

CAMPBELLTOWN
Paul Wakeling Holden
Cnr Blaxland & Campbelltown Rds
P: (02) 4628 1444 Fax: (02) 4628 3262

CASTLE HILL
Windsor Road Holden
Cnr Victoria Ave/Windsor Rd
P: (02) 9894 6666 Fax: (02) 9894 5600

CHULLORA
Suttons Motors (Chullora) P/L
Cnr Hume Hwy/Waterloo Rd
P: (02) 9642 0233 Fax: (02) 9642 7798

DEE WHY
Peninsula Holden Dee Why
Cnr May & Mooramba Roads
P: (02) 9982 1311 Fax: (02) 9982 3755

EAST SYDNEY
Suttons City Holden
137-157 Bourke Street
P: (02) 9357 4222 Fax: (02) 9358 5542

GORDON
Sundell Holden
Cnr Pacific Hwy/McIntyre St
P: (02) 9498 7766 Fax: (02) 9498 2906

HOMEBUSH
Suttons Motors Homebush P/L
112 Parramatta Road
P: (02) 9746 4500 Fax: (02) 9746 7206

LAKEMBA
United Holden Lakemba
817 Canterbury Road
P: (02) 9740 5555 Fax: (02) 9740 5907

LANSVALE
Lansvale Holden
266~284 Hume Highway
P: (02) 9728 7333 Fax: (02) 9726 1085

LIVERPOOL
McGrath Holden
411~419 Hume Highway
P: (02) 9821 5000 Fax: (02) 9821 1993

PARRAMATTA
Boyded Holden Parramatta
65 Church Street
P: (02) 9204 6666 Fax: (02) 9635 6346

PENNANT HILLS
Barry Smith Holden
343~355 Pennant Hills Road
P: (02) 9483 3333 Fax: (02) 9484 7475

PENRITH
Penrith City Holden
Cnr Henry St & Evan Street
P: (02) 4732 1966 Fax: (02) 4721 5896

ROCKDALE
United Holden Rockdale
571 Princes Hwy
P: (02) 9567 0321 Fax: (02) 9597 7395

ROSEBERY
Suttons City Holden
Link Road
P: (02) 9931 3000 Fax: (02) 9931 3001

RYDE
Hunter Holden
603~605 Victoria Road
P: (02) 9808 9123 Fax: (02) 9809 6592

SPRINGWOOD
Springwood Holden
15 Ferguson Road
P: (02) 4751 1911 Fax: (02) 4751 2481

ST LEONARDS
Hunter Holden
4 Herbert Street
P: (02) 9906 4044 Fax: (02) 9439 4635

ST. MARY'S
John Young Holden
Cnr Glossop & Harris Streets
P: (02) 9673 2111 Fax: (02) 9673 4932

SUTHERLAND
McGrath Holden Sutherland
499~505 Princes Highway
P: (02) 9545 4811 Fax: (02) 9545 2533

WAITARA
Suttons Motors Waitara P/L
90 Pacific Hwy
P: (02) 9487 2222 Fax: (02) 9489 0009

AUSTRALIAN HOLDEN DEALERS CONT.

WINDSOR
Hawkesbury Valley Holden
18 Macquarie Street
P: (02) 4577 4077 Fax: (02) 4577 2592

N.S.W. Country

ARMIDALE
New State Motors
103 Rusden Street
P: (02) 6772 9444 Fax: (02) 6772 5836

BALLINA
Quayside Motors
Pacific Highway
P: (02) 6686 5111 Fax: (02) 6686 8574

BARHAM
Hall's Motors Pty Ltd
44 Noorong Street
P: (03) 5453 2092 Fax: (03) 5453 1064

BATEMANS BAY
Surfair Holden
30-32 Orient Street
P: (02) 4472 5111

BATHURST
Bathurst Holden
54 Durham Street
P: (02) 6331 2077 Fax: (02) 6331 9177

BEGA
Bega Valley Holden
Cnr Upper and Gibbs Sts
P: (02) 6492 2333 Fax: (02) 6492 3105

BLAYNEY
Blayney Holden
98 Adelaide Street
P: (02) 6368 2745 Fax: (02) 6368 3257

BOMBALA
Delcott Engineering Pty Ltd
Maybe Street
P: (02) 6458 3341 Fax: (02) 6458 3940

BOOROWA
Boowowa Auto Repairs
40 Marsden Street
P: (02) 6385 3305

BREWARRINA
Lukas Holden
Bathurst Street
P: (02) 6839 2105 Fax: (02) 6839 2454

BROKEN HILL
Donlee Motors Pty Ltd
Cnr Galena & Rakow Streets
P: (08) 8087 2463 Fax: (08) 8087 7971

CANOWINDRA
Canowindra Motors
Gaskill Street
P: (02) 6344 1105 Fax: (02) 6344 1105

CARDIFF
Brian Kelly Holden
35~39 MacQuarie Road
P: (02) 4954 7733 Fax: (02) 4954 9407

CASINO
Casino Holden
142 Barker Street
P: (02) 6662 2822 Fax: (02) 6662 2101

CESSNOCK
Geoff Boyd Holden
Cnr Wollombi Road and Darwin Street
P: (02) 4990 3800 Fax: (02) 4991 1544

COBAR
Cobar Holden
Cnr Lewis St & Louth Road
P: (02) 6836 4005 Fax: (02) 6836 3409

COFF'S HARBOUR
Geoff King Holden
Cnr Pacific Hwy and Thompson Road
P: (02) 6652 2288 Fax: (02) 6652 5360

COOMA
Summit Holden
66~70 Sharp Street
P: (02) 6452 1077 Fax: (02) 6452 1142

COONABARABRAN
Coonabarabran Holden
24 Charles Street
P: (02) 6842 1499 Fax: (02) 6842 2473

COONAMBLE
Moody's Motors
37 Aberford Street
P: (02) 6822 1161 Fax: (02) 6822 1624

COOTAMUNDRA
Jenkins Garage
111 Wallendoon Street
P: (02) 6942 2522 Fax: (02) 6942 1493

COWRA
Waugoola Motors Pty Ltd
Kendal Street
P: (02) 6342 1800 Fax: (02) 6342 3614

CROOKWELL
Crookwell Autos
114 Goulburn Street
P: (02) 4832 1433 Fax: (02) 4832 2157

DENILIQUIN
Burchfield Bros & Co
112~114 End Street
P: (03) 5881 2133 Fax: (03) 5881 3322

DORRIGO
Phil Noble Motors
46~48 Hickory Street
P: (02) 6657 2017 Fax: (02) 6657 2217

DUBBO
John Kierath
54 Bourke Street
P: (02) 6882 1011 Fax: (02) 6882 7102

AUSTRALIAN HOLDEN DEALERS cont.

DUNGOG
Turner Holden
248 Dowling Street
P: (02) 4992 1816 Fax: (02) 4992 1833

EDEN
Ron Doyle
113 Princes Highway
P: (02) 6496 1420 Fax: (02) 6496 1467

FINLEY
Riverina Garage Finley
104 Murray Street
P: (03) 5883 1211 Fax: (03) 5883 1638

FORBES
Frank Spice Holden
20~22 Dowling Street
P: (02) 6851 1755 Fax: (02) 6852 2825

GATESHEAD
Brian Kelly Holden
39 Pacific Highway
P: (02) 4920 7000 Fax: (02) 4920 8008

GILGANDRA
Gilgandra Holden
3 Morris Street
P: (02) 6847 1888 Fax: (02) 6847 1277

GLEN INNES
Glen Severn Holden
167 Grey Street
P: (02) 6732 2888 Fax: (02) 6732 3394

GOSFORD
Noble Holden
Pacific Highway
P: (02) 4325 0511 Fax: (02) 4324 1043

GOULBURN
Geissler Motors
279~298 Auburn Street
P: (02) 4821 3744 Fax: (02) 4821 9798

GRAFTON
Ken Casson Holden
37~39 Turf Street
P: (02) 6642 6666 Fax: (02) 6642 6737

GRENFELL
Peter Mellon Motors
40 Alexandra Street
P: (02) 6343 1522 Fax: (02) 6343 1347

GRIFFITH
Leo Franco Holden
164~166 Yambil Street
P: (02) 6964 2977 Fax: (02) 6962 4916

GUNNEDAH
Namoi Valley Motors
48 Barber Street
P: (02) 6742 0211 Fax: (02) 6742 3842

HARDEN
Ginty & O'Leary
Cnr Station & Albury Streets
P: (02) 6386 2320 Fax: (02) 6386 2722

HAY
Royce Curtis Motors
168 Lachlan Street
P: (02) 6993 1503 Fax: (02) 6993 2212

HOLBROOK
Lieschke Motors Pty Ltd
78 Albury Street
P: (02) 6036 2244 Fax: (02) 6036 2831

INVERELL
Gaukroger Sales Pty Ltd
Vivian Street
P: (02) 6722 2722 Fax: (02) 6722 1804

JERILDERIE
Jerilderie Motors
Jerilderie Street
P: (03) 5886 1302 Fax: (03) 5886 1734

KANDOS
Chrisfield Holden
11 Angus Street
P: (02) 6379 4204 Fax: (02) 6379 4606

KATOOMBA
Katoomba Holden
136 Great Western Highway
P: (02) 4732 1966 Fax: (02) 4782 5546

KEMPSEY
Thoroughgood Holden
118~132 Belgrave Street
P: (02) 6562 1381 Fax: (02) 6562 1383

KIAMA
Glen Fulton Holden
35~41 Collins Street
P: (02) 4232 1888 Fax: (02) 4232 3062

KYOGLE
O & H Holden
128~134 Summerland Way
P: (02) 6632 1711 Fax: (02) 6632 2552

LEETON
John Ryan Holden
47~51 Pine Avenue
P: (02) 6953 2466 Fax: (02) 6953 6725

LISMORE
John Chant Motors Pty Ltd
Carrington Street
P: (02) 6621 2601 Fax: (02) 6622 4659

LITHGOW
Lithgow City Holden
255 Main Street
P: (02) 6351 4555 Fax: (02) 6351 4653

MACKSVILLE
Eastland Auto Centre
18~22 Cooper Street
P: (02) 6568 1711 Fax: (02) 6568 1816

MACLEAN
O'Halloran Motors
175 River Street
P: (02) 6645 2844 Fax: (02) 6645 4003

AUSTRALIAN HOLDEN DEALERS cont.

MAITLAND
Heritage Holden
Cnr New England Hwy & Bungaree St
P: (02) 4932 0779 Fax: (02) 4932 0473

MOREE
Keith Haddad Holden
Cnr Boston & Heber Streets
P: (02) 6752 1855 Fax: (02) 6752 1298

MORUYA
Surfair Holden
88 Vulcan Street
P: (02) 4474 2555 Fax: (02) 4474 2129

MOSS VALE
Moss Vale Holden
160~162 Argyle Street
P: (02) 4868 1055 Fax: (02) 4868 3330

MULLUMBIMBY
Tony Carsburg Holden
2 Argyle Street
P: (02) 6684 2066 Fax: (02) 6684 4593

MUDGEE
Ross Granata Motors
32 Sydney Road
P: (02) 6372 1766 Fax: (02) 6372 3735

MURWILLUMBAH
Tweed Motors
29 Prospero Street
P: (02) 6672 4444 Fax: (02) 6672 5811

MUSWELLBROOK
Upper Hunter Motors Pty Ltd
116 Bridge Street
P: (02) 6543 2577 Fax: (02) 6543 2565

NARRABRI
Allan Cooper Holden
181 Maitland Street
P: (02) 6792 3488 Fax: (02) 6792 4750

NARROMINE
Terry Green Holden
45~51 Dandaloo Street
P: (02) 6889 1244 Fax: (02) 6889 2277

NEWCASTLE
Newcastle City Holden
King Street (Cnr Stewart Ave)
P: (02) 4961 5301 Fax: (02) 4961 6485

NOWRA
Glendon Motors Holden
301~313 Princes Highway
P: (02) 4421 0144 Fax: (02) 4423 0854

NYNGAN
New Bridge Service Centre
36 Numagee Street
P: (02) 6832 1761 Fax: (02) 6832 2760

ORANGE
Canobolas Holden
348 Summer Street
P: (02) 6362 0155 Fax: (02) 6361 3702

PARKES
Broderick Motors Holden
Cnr Mitchell & Clarinda Sts
P: (02) 6862 2266 Fax: (02) 6862 1406

PEAK HILL
S. Leary & Sons Pty Ltd
Mingelo Street
P: (02) 6869 1459 Fax: (02) 6869 1999

PORT MACQUARIE
Bob Todd Motors Pty Ltd
115 Gordon Street
P: (02) 6583 1100 Fax: (02) 6584 9508

QUIRINDI
Browning Motors
82 Henry Street
P: (02) 6746 1666 Fax: (02) 6746 1422

SCONE
Upper Hunter Motors (Scone)
100 Liverpool Street
P: (02) 6545 1355

SINGLETON
Lancaster Holden
80 John Street
P: (02) 6578 8700 Fax: (02) 6578 8733

TAMWORTH
Kensell's Holden
Cnr Bourke St & Kable Ave
P: (02) 6766 6699 Fax: (02) 6766 7339

TAREE
Hardes Holden
21~25 Victoria Street
P: (02) 6552 2222 Fax: (02) 6552 1269

TEMORA
Rod Lovering Holden
607-608 Stockinbingal Road
P: (02) 6977 2255 Fax: (02) 6977 2033

TENTERFIELD
Sexton & Green (Sales & Service) P/L
148 Rouse Street
P: (02) 6736 1855 Fax: (02) 6736 1946

TUMUT
Harry Kell & Sons Pty. Ltd
Cnr. Merrivale & Russell Streets
P: (02) 6947 2293 Fax: (02) 6947 3763

TUNCURRY
Great Lakes Holden
144 Manning Street
P: (02) 6555 6644 Fax: (02) 6555 7433

TWEED HEADS
Tweed Motors
75~79 Pacific Highway
P: (07) 5536 3411 Fax: (07) 5536 4490

ULLADULLA
Alan May Holden
169 Princes Highway
P: (02) 4455 1166 Fax: (02) 4455 4122

AUSTRALIAN HOLDEN DEALERS cont.

WAGGA WAGGA
Wagga Motors Pty Ltd
32 Dobney Avenue
P: (02) 6925 3411 Fax: (02) 6925 3283

WALCHA
Bowdens Holden Walcha
18 Derby Street
P: (02) 6777 2226 Fax: (02) 6777 2319

WALGETT
Walgett Garage Pty Ltd
81 Wee Waa Street
P: (02) 6828 1088 Fax: (02) 6828 1198

WALLA WALLA
D.E. Lieschke & Son Pty Ltd
63 Commercial Road
P: (02) 6029 2202 Fax: (02) 6029 2134

WARIALDA
Roger Moore
Hope Street
P: (02) 6729 1570 Fax: (02) 6729 1104

WARILLA
Wilson’s Holden
29 Shellharbour Road
P: (02) 4295 1223 Fax: (02) 4296 1007

WARREN
Fuller Bros
Dubbo Street
P: (02) 6847 4978 Fax: (02) 6847 4477

WELLINGTON
Gersbach’s Garage Pty Ltd
92 Lee Street
P: (02) 6845 2733 Fax: (02) 6845 3236

WEST WYALONG
West Wyalong Motors
183 Main Street
P: (02) 6972 2388 Fax: (02) 6972 2570

WOLLONGONG
Dwyers City Holden
31~33 Crown Street
P: (02) 4229 9222 Fax: (02) 4229 5105

WYONG
Barry Robertson Holden
172 Pacific Highway
P: (02) 4351 2588 Fax: (02) 4352 1759

YASS
Bill Nesbitt Holden
221 Comur Street
P: (02) 6226 1866 Fax: (02) 6226 1747

YOUNG
Harden & Geelan Holden
48 Boorowa Street
P: (02) 6382 1155 Fax: (02) 6382 4673

A.C.T.

BELCONNEN
Gerald Slaven Holden
2 Josephson Street
P: (02) 6251 5111 Fax: (02) 6253 1298

BRADDON
Rolfe Holden
44 Mort Street
P: (02) 6248 7888 Fax: (02) 6257 1328

PHILLIP
Commonwealth Motors Pty Ltd
158 Melrose Drive
P: (02) 6282 3522 Fax: (02) 6282 5214

Tas.

BURNIE
Motors Burnie
Marine Terrace
P: (03) 6431 1122 Fax: (03) 6431 3146

DEVONPORT
Motors Devonport
Victoria Parade
P: (03) 6424 4033 Fax: (03) 6424 5249

HOBART
Motors Pty Ltd
179 MacQuarie Street
P: (03) 6220 1171 Fax: (03) 6223 8117

KING ISLAND
King Island Motors Pty Ltd
Netherby Road, Currie
P: (03) 6462 1155 Fax: (03) 6462 1488

LAUNCESTON
Motors Launceston
93~95 Elizabeth Street
P: (03) 6332 9101 Fax: (03) 6334 5245

Vic. Metropolitan

BERWICK
Barry Bourke Holden
755 Princes Highway
P: (03) 9707 2222 Fax: (03) 9707 3091

BUNDOORA
Watson Holden
413 Grimshaw Street
P: (03) 9467 4677 Fax: (03) 9467 7661

BURWOOD
Penfold Holden
142 Burwood Highway
P: (03) 9268 1333 Fax: (03) 9268 1335

CHELSEA
Harrison Holden
370 Nepean Highway
P: (03) 9772 2233 Fax: (03) 9772 2190

AUSTRALIAN HOLDEN DEALERS cont.

CHELTENHAM
Booran Holden
1212 Nepean Highway
P: (03) 9584 3333 Fax: (03) 9584 4285

DANDENONG
Booran Holden
17 Lonsdale Street
P: (03) 9794 5455 Fax: (03) 9792 4871

DONCASTER
Doncaster Holden
636~640 Doncaster Road
P: (03) 9840 0188 Fax: (03) 9840 2587

ELSTERNWICK
Reg Hunt Holden
63 Nepean Highway
P: (03) 9528 2222 Fax: (03) 9528 1088

ESSENDON
Preston Motors (Essendon) P/L
205~211 Keilor Road
P: (03) 9374 2888 Fax: (03) 9379 6754

FAWKNER
Mantello Holden
1263 Sydney Road
P: (03) 9359 1333 Fax: (03) 9359 9334

FERNTREE GULLY
Ferntree Gully Holden
980 Burwood Highway
P: (03) 9758 2222 Fax: (03) 9758 3435

FOOTSCRAY
Alan Mance Holden
435 Barkly Street
P: (03) 9396 8000 Fax: (03) 9396 8001

FRANKSTON
Bay City Holden
140 Dandenong Road
P: (03) 9784 4444 Fax: (03) 9784 4419

GEELONG
R & B Smith Holden
510 Moorabool Street
P: (03) 5222 2888 Fax: (03) 5221 3114

GEELONG
Winter & Taylor (Sales) P/L
23 Cavendish Street
P: (03) 5222 1811 Fax: (03) 5221 1873

GLENHUNTLY
Booran Holden
1234 Glenhuntly Road
P: (03) 9571 9313 Fax: (03) 9571 8374

GLEN WAVERLEY
Geoff Brady Holden
565~577 Springvale Road
P: (03) 9550 5888 Fax: (03) 9550 5855

HASTINGS
John Collins Holden
2041 Frankston-Flinders Road
P: (03) 5979 4433 Fax: (03) 5975 4720

LILYDALE
Heritage Holden
344 Main Street
P: (03) 9735 5566 Fax: (03) 9735 1040

MELTON
Alan Mance Holden
1 Holland Drive
(03) 9746 9666 Fax: (03) 9746 9555

MORNINGTON
John Collins Holden
976 Nepean Highway
P: (03) 5975 44 3 Fax: (03) 5975 4720

OAKLEIGH
Garry & Warren Smith
1575 Dandenong Road
P: (03) 9568 6333 Fax: (03) 9568 5691

PRESTON
Ralph D’Silva Holden
573~603 High Street
P: (03) 9471 0500 Fax: (03) 9478 4210

RINGWOOD
Patterson Cheney Holden
45~57 Maroondah Highway
P: (03) 9262 6666 Fax: (03) 9870 1113

SOUTH MELBOURNE
South City Holden
380 City Road
P: (03) 9627 3333 Fax: (03) 9682 6888

SOUTH YARRA
Penfold Holden
681 Chapel Street
P: (03) 9827 2272 Fax: (03) 9826 5328

SUNBURY
Sunbury Holden
93~95 Horne Street
P: (03) 9740 3000 Fax: (03) 9740 4777

SUNSHINE
Kevin Dennis Holden
272 Ballarat Road
P: (03) 9292 9292 Fax: (03) 9292 9200

WERRIBEE
Ballan Holden
56 Princes Highway
P: (03) 9741 2222 Fax: (03) 9742 3797

WEST MELBOURNE
Reg Hunt Holden
577 King Street
P: (03) 9329 6611 Fax: (03) 9329 1550

AUSTRALIAN HOLDEN DEALERS cont.

Vic. Country

ALEXANDRA
Alexandra Total Automotive Services
120 Grant Street
P: (03) 5772 1588 Fax: (03) 5772 1978

ARARAT
David Reid Motors
High Street
P: (03) 5352 4100 Fax: (03) 5352 4388

BAIRNSDALE
The Big Garage
628 Princes Highway
P: (03) 5152 4131 Fax: (03) 5152 5313

BALLARAT
Peter Amor Motors
211 Gillies Street
P: (03) 5339 9333 Fax: (03) 5339 9202

BENALLA
Arnott's Motors
88~90 Bridge Street
P: (03) 5762 2500 Fax: (03) 5762 1586

BENDIGO
Ron Poyser Holden
Cnr High & Myrtle Streets
P: (03) 5442 3999 Fax: (03) 5442 7766

BIRCHIP
R.L. & C.J. Bales
38 Cumming Avenue
P: (03) 5492 2543

BOORT
Jaron Motors
55 Godfrey Street
P: (03) 5455 2008 Fax: (03) 5455 2008

CAMPERDOWN
Camperdown Auto Parts
96 Manifold Street
P: (03) 5593 1983 Fax: (03) 5593 1979

CASTERTON
Coxons Holden
139 Henty Street
P: (03) 5581 1166 Fax: (03) 5581 2116

CHARLTON
K.V. Charlton
70 High Street
P: (03) 5491 1444 Fax: (03) 5491 1984

COBRAM
Neville Mustica Motors
Murray Valley Hwy
P: (03) 5872 1666 Fax: (03) 5872 1920

COHUNA
Hare Motors Holden
105~107 King George Street
P: (03) 5456 4488 Fax: (03) 5456 4448

COLAC
Parker Bros. Motor Co
224 Murray Street
P: (03) 5231 5533 Fax: (03) 5231 3853

DAYLESFORD
K.R. Little
Vincent Street
P: (03) 5348 2248

DIMBOOLA
Westerfield Motors Pty Ltd
64 Lloyd Street
P: (03) 5389 1302

DONALD
O.A. Shilton & Sons Pty Ltd
5 Woods Street
P: (03) 5497 1400 Fax: (03) 5497 1505

ECHUCA
Echuca Motors
1 Nothern Highway
P: (03) 5482 1522 Fax: (03) 5480 6215

EUROA
Parker Bros Auto Co. Euroa
37~41 Clifton Street
P:(03) 5795 2702 Fax: (03) 5795 1288

FOSTER
Ray Dower Motors
78 Main Street
P: (03) 5682 2404

HAMILTON
Blood Auto Group Pty Ltd
210 Gray Street
P: (03) 5572 1433 Fax: (03) 5571 1182

HOPETOUN
Hopetoun Motors
78 Lascelles Street
P: (03) 5083 3143 Fax: (03) 5083 3290

HORSHAM
Ivan Morrow Motors Pty Ltd
22 O'Callaghans Parade
P: (03) 5382 0185 Fax: (03) 5382 0459

KANIVA
Kaniva Motors
82 Commercial Street
P: (03) 5392 2300 Fax: (03) 5392 2589

KOO WEE RUP
G & J Light Mechanical Repairs P/L
Station Road
P: (03) 5997 1325

KORUMBURRA
Peter Dunlevie Holden
42 Commercial Street
P: (03) 5655 1288 Fax: (03) 5655 1839

KYABRAM
D'Alberto Holden
60 McEwen Road
P: (03) 5852 1366 Fax: (03) 5852 1337

AUSTRALIAN HOLDEN DEALERS cont.

KYNETON
Mollison Motors Pty Ltd
167 Mollison Street
P: (03) 5422 3377 Fax: (03) 5422 3501

LEONGATHA
Gleeson Holden
37~43 Bair Street
P: (03) 5662 2361 Fax: (03) 5662 3393

MANSFIELD
Martin's Garage
52~54 Chenery Street
P: (03) 5775 2610 Fax: (03) 5775 1179

MARYBOROUGH
Graham Jacka Holden
35 Nolan Street
P: (03) 5461 1011 Fax: (03) 5461 4789

MILDURA
Stuart & Harrison (Sales) Pty Ltd
24~32 Deakin Avenue
P: (03) 5023 0051 Fax: (03) 5021 3076

MORTLAKE
W. Christian (Mortlake) Pty. Ltd.
107 Dunlop Street
P: (03) 5599 2301 Fax: (03) 5599 2567

MURRAYVILLE
Peers Motors
McKenzie Street
P: (03) 5095 2081 Fax: (03) 5095 2054

NATHALIA
BHB Motors
6 Blake Street
P: (03) 5866 2660

NHILL
Ivan Morrow Motors Pty Ltd
71~73 Nelson Street
P: (03) 5391 1333 Fax: (03) 5391 1228

NULLAWIL
Nullawil Motors & General Engineers
Calder Highway
P: (03) 5493 5210 Fax: (03) 5493 5210

ORBOST
Merlin Motors
Stanley Street
P: (03) 5154 1909

PORTLAND
Reynolds of Portland
Henty Highway
P: (03) 5523 1688 Fax: (03) 5523 6299

QUAMBATOOK
Quambatook Auto Services
32 Gutherie Street
P: (03) 5457 1237 Fax: (03) 5457 1420

ROCHESTER
Bruce Hocking Motors Pty Ltd
71 Moore Street
P: (03) 5484 1455 Fax: (03) 5484 1140

RUTHERGLEN
Jasper Bros Pty Ltd
62 Main Street
P: (02) 6032 8404 Fax: (02) 6032 8156

SALE
Sam Gould Holden
273 York Street
P: (03) 5144 3944 Fax: (03) 5144 6289

SEALAKE
Paddy Smith Holden
Calder Highway
P: (03) 5070 1147

SEYMOUR
Neil Beer Holden
49 Emily Street
P: (03) 5792 2777 Fax: (03) 5792 4111

SHEPPARTON
Parker Bros. Auto Co.
Benalla Road
P: (03) 5822 2666 Fax: (03) 5831 2507

STAWELL
Howden Holden
72~74 Longfield Street
P: (03) 5358 1888 Fax: (03) 5358 3954

SWAN HILL
Swan Hill Holden
94~102 Campbell Street
P: (03) 5033 1800 Fax: (03) 5032 2468

TALLANGATTA
Crispin Motors
21 Towong Street
P: (02) 6071 2414 Fax: (02) 6071 2655

TERANG
W. Christian (Terang) Pty Ltd
6a Baynes Street
P: (03) 5592 1588 Fax: (03) 5592 1481

TIMBOON
Timboon Motors
56 Bailey Street
P: (03) 5598 3007 Fax: (03) 5598 3362

TRARALGON
Colin Watson Holden
Princes Highway
P: (03) 5174 8000 Fax: (03) 5175 0050

UNDERBOOL
A.J. Gloster & Sons
Cotter Street
P: (03) 5094 6291 Fax: (03) 5094 6297

WANGARATTA
Alan Capp (New Cars) Pty Ltd
29 Tone Road
P: (03) 5721 2133 Fax: (03) 5721 4626

WARRACKNABEAL
Amor Motors Aubrey Truck Sales
33 Woolcock Street
P: (03) 5394 1055 Fax: (03) 5398 1904

AUSTRALIAN HOLDEN DEALERS cont.

WARRAGUL
Vin Rowe Holden
3 Endeavour Street
P: (03) 5623 1362 Fax: (03) 5623 4314

WARRNAMBOOL
Callaghan Motors Pty Ltd
133~137 Fairy Street
P: (03) 5562 3711 Fax: (03) 5562 7415

WODONGA
McRae White Motors
182 Melbourne Road
P: (02) 6056 2333 Fax: (02) 6024 7899

WONTHAGGI
Wonthaggi Holden
2 Murray Street
P: (03) 5672 1122 Fax: (03) 5672 4141

YARRAM
John Palmer Holden
150 Commercial Road
P: (03) 5182 5122 Fax: (03) 5182 6166

YARRAWONGA
Pigdons Pty Ltd
155 Belmore Street
P: (03) 5743 1577 Fax: (03) 5744 1788

Qld. Metropolitan

ASPLEY
Zupps Aspley Pty Ltd
1454 Gympie Road
P: (07) 3246 8000 Fax: (07) 3263 7036

BROWNS PLAINS
Zupps Hillcrest
Cnr Mt Lindsay Highway & Corporate Place
P: (07) 3802 4000 Fax: (07) 3802 4099

CAPALABA
Oldfield Holden
103 Redland Bay Road
P: (07) 3245 2200 Fax: (07) 3245 2221

EMERALD
Emerald Holden
Hospital Road
P: (07) 4980 7622 Fax: (07) 4982 2791

INDOOROOPILLY
Westpoint Holden
440 Moggill Road
P: (07) 3878 0440 Fax: (07) 3878 1340

IPSWICH
Ross Llewellyn Holden
246 Brisbane Road
P: (07) 3282 2922 Fax: (07) 3282 6359

LAIDLEY
Buhse's Garage
5 Spicer Street
P: (07) 5465 1406 Fax: (07) 5465 1706

MOOROOKA
John Sivyer Holden
1060 Ipswich Road
P: (07) 3892 3344 Fax: (07) 3848 8866

MT. GRAVATT
Zupps Motors Pty Ltd
1310 Logan Road
P: (07) 3877 0000 Fax: (07) 3877 0063

NEWSTEAD
Eagers Retail Pty Ltd
95 Breakfast Creek Road
P: (07) 3364 1199 Fax: (07) 3364 1060

PETRIE
Village Motors
1059 Gympie Road
P: (07) 3285 2244 Fax: (07) 3285 1975

REDCLIFFE
Village Holden
425 Elizabeth Avenue
P: (07) 3284 7344 Fax: (07) 3883 2711

SPRINGWOOD
Motorama Holden
3455 Pacific Highway
P: (07) 3804 4888 Fax: (07) 3208 7018

WINDSOR
Leach Holden
143 Newmarket Road
P: (07) 3357 6711 Fax: (07) 3357 5403

WOOLLOONGABBA
Armstrong Holden
73 Ipswich Road
P: (07) 3891 5522 Fax: (07) 3891 5146

WYNNUM
Doug Barton Holden
200 Tingal Road
P: (07) 3396 7777 Fax: (07) 3393 3593

Qld. Country

ATHERTON
Redding Motors Pty Ltd
2 Cook Street
P: (07) 4091 1344 Fax: (07) 4091 2039

AYR
Honeycombes Sales & Service
213~217 Queen Street
P: (07) 4783 2344 Fax: (07) 4783 2079

BEAUDESERT
Lawson Holden
57 Brisbane Street
P: (07) 5541 2000 Fax: (07) 5541 3368

BILOELA
Andersons Auto City
Dawson Highway
P: (07) 4992 2833 Fax: (07) 4992 3066

AUSTRALIAN HOLDEN DEALERS cont.

BOWEN
McDermott Holden
98 Herbert Street
P: (07) 4786 1430 Fax: (07) 4786 2903

BUNDABERG
Ross Gray Holden
Takalvan Street
P: (07) 4150 1333 Fax: (07) 4150 1318

CABOOLTURE
Beecham Holden
Bribie Island Road
P: (07) 5495 1477 Fax: (07) 5495 2839

CAIRNS
Ireland Holden
227~233 Mulgrave Road
P: (07) 4052 3666 Fax: (07) 4052 3606

CALOUNDRA
Caloundra City Holden
45 Caloundra Road
P: (07) 5491 5522 Fax: (07) 5491 8016

CHARLEVILLE
Alan Dobbin Holden
129 Alfred Street
P: (07) 4654 1737 Fax: (07) 4654 3254

CHARTERS TOWERS
Peters Holden
57 Mosman Street
P: (07) 4787 1177 Fax: (07) 4787 4858

CHINCHILLA
Ainsworth Motors & Machinery Pty Ltd
55 Chinchilla Street
P: (07) 4662 7286 Fax: (07) 4662 7197

CROWS NEST
Dennis Nissen Motors
14 William Street
P: (07) 4698 1300 Fax: (07) 4698 1495

DALBY
Johnson’s Holden
36 Drayton Street
P: (07) 4662 2422 Fax: (07) 4662 4311

GATTON
Gatton Auto Centre
67 Railway Street
P: (07) 5462 1633 Fax: (07) 5462 1980

GLADSTONE
Andersons Auto City
56 Yarroon Street
P: (07) 4972 1177 Fax: (07) 4972 9141

GOONDIWINDI
Carpro
Cnr Lagoon & West Streets
P: (07) 4671 2170 Fax: (07) 4671 2013

GYMPIE
Madills Holden
35 Mellor Street
P: (07) 5480 5500 Fax: (07) 5482 2672

HERVEY BAY
Whitaker Holden
96 Torquay Road
P: (07) 4128 1722

INGHAM
Devietti Holden
99 Lannercost Street
P: (07) 4776 1599 Fax: (07) 4776 3547

INNISFAIL
I.C. Taylor Pty Ltd
117 Edith Street
P: (07) 4061 1577 Fax: (07) 4061 3963

JULIA CREEK
Julia Creek Motors Pty Ltd
Burke Street
P: (07) 4746 7155 Fax: (07) 4746 7197

KILCOY
Hobart’s Garage
58 Mary Street
P: (07) 5497 1204 Fax: (07) 5497 1204

KINGAROY
John Dundas Pty Ltd
79 Kingaroy Street
P: (07) 4162 1722 Fax: (07) 4162 3756

LONGREACH
Longreach Motors
33 Swan Street
P: (07) 4658 1700 Fax: (07) 4658 1857

MACKAY
Pioneer Holden
Cnr Gordon & Wellington Streets
P: (07) 4969 4299 Fax: (07) 4969 4288

MAROOCHYDORE
Sunco Holden
Wises Road
P: (07) 5443 7644 Fax: (07) 5443 7645

MARYBOROUGH
Whitaker Holden
109~111 March Street
P: (07) 4122 2255 Fax: (07) 4122 6222

MOUNT ISA
Barkly Motors Pty Ltd
Marian Street
P: (07) 4743 3044 Fax: (07) 4743 8466

MURGON
Clifton Motors
Macalister Street
P: (07) 4168 1066 Fax: (07) 4168 1947

NAMBOUR
Sunco
Bruce Highway
P: (07) 5451 2000 Fax: (07) 5451 2099

AUSTRALIAN HOLDEN DEALERS cont.

NAMBOUR
Kallenbach Motors
139 Howard Street
P: (07) 5441 3099 Fax: (07) 5441 3105

NANANGO
Nanango Motors Pty Ltd
102 Drayton Street
P: (07) 4163 1108 Fax: (07) 4163 1108

NOOSAVILLE
Madill's
Lot 1 Lionel Donovan Drive
P: (07) 5470 0700 Fax: (07) 5474 0073

PROSERPINE
Crossley Car Sales Whitsunday Pty Ltd
162~164 Main Street
P: (07) 4945 1822 Fax: (07) 4945 2022

ROBINA
Robina Holden
16 Brabham Circuit
P: (07) 5575 0500 Fax: (07) 5562 1072

ROCKHAMPTON
Lawrence's
327 Richardson Road
P: (07) 4930 5111 Fax: (07) 4930 5112

ROMA
Maranoa Multi Agencies
Bowen Street
P: (07) 4622 2900 Fax: (07) 4622 1832

SOUTHPORT
Lockhart Holden
Cnr Nerang Road & Olsen Avenue
P: (07) 5597 2900 Fax: (07) 5597 2542

SPRINGSURE
Springsure Motors
Eclipse Street
P: (07) 4984 1177 Fax: (07) 4984 1361

ST. GEORGE
Halpin Motors
39~41 Grey Street
P: (07) 4625 5466 Fax: (07) 4625 5855

STANTHORPE
Central Motors
42 Maryland Street
P: (07) 4681 2200 Fax: (07) 4681 1479

TOOWOOMBA
Toowoomba Holden
Cnr James & Hume Streets
P: (07) 4690 0900 Fax: (07) 4690 0909

TOWNSVILLE
Tony Ireland Holden
87~91 Charters Towers Road
P: (07) 4726 7777 Fax: (07) 4721 1486

TULLY
Island Coast Holden
Bruce Highway
P: (07) 4068 1288 Fax: (07) 4068 2145

WARWICK
Deighton Motors Pty Ltd
Grafton Street
P: (07) 4661 2266 Fax: (07) 4661 1275

N.T.

ALICE SPRINGS
Kittles Holden
Cnr Wills & Railway Terrace
P: (08) 8952 1155 Fax: (08) 8953 1556

DARWIN
Kerry Holden
21~25 Stuart Highway
P: (08) 8980 8080 Fax: (08) 8980 8081
KATHERINE
Kittles Holden
441 Victoria Highway
P: (08) 8972 1788 Fax: (08) 8971 0209
TENNANT CREEK
Kittles Holden
Paterson Street
P: (08) 8962 2251 Fax: (08) 8962 2527

S.A. Metropolitan

ADELAIDE
City Holden
223 Grenfell Street
P: (08) 8223 7666 Fax: (08) 8359 2588

ELIZABETH
Peter Page Holden
17 Elizabeth Way
P: (08) 8255 1288 Fax: (08) 8255 9260

MALVERN
Claridge Holden
361~367 Unley Road
P: (08) 8272 1600 Fax: (08) 8373 0057

PORT ADELAIDE
Smiths of Port Adelaide
271 Commercial Road
P: (08) 8341 2255 Fax: (08) 8341 2233

PROSPECT
Metro Holden
84~88 Main North Road
P:(08) 8343 5000 Fax: (08) 8344 9670

REYNELLA
Southgate Holden
49~59 Main South Road
P: (08) 8381 9555 Fax: (08) 8381 6274

ROSE PARK
City Holden
14 Kensington Road
P: (08) 8334 4666 Fax: (08) 8334 4610

SOMERTON PARK
Hamilton Holden
278~288 Brighton Road
P: (08) 8296 4866 Fax: (08) 8358 3957

AUSTRALIAN HOLDEN DEALERS cont.

THEBARTON
Metro Holden
1 Port Road
P: (08) 8354 9555 Fax: (08) 8443 6855

VALLEY VIEW
Plaza Holden
817~839 North East Road
P: (08) 8263 4922 Fax: (08) 8265 5200

S.A. Country

BALAKLAVA
Balaklava Motors
4 Wallace Street
P: (08) 8862 1030 Fax: (08) 8862 2000

BERRI
Rosenthal Bros Pty Ltd
Vaughan Terrace
P: (08) 8582 3644 Fax: (08) 8582 3515

BORDERTOWN
Farmers Centre
South Terrace
P: (08) 8752 0266 Fax: (08) 8752 0233

CEDUNA
Beck Motors Pty Ltd
Poynton Street
P: (08) 8625 2616 Fax: (08) 8625 3201

CLARE
Mid North Motor Company
7 Old North Road
P: (08) 8842 2200 Fax: (08) 8842 2886

CLEVE
Herbert Motors Pty Ltd
Rudall Road
P: (08) 8628 2150 Fax: (08) 8628 2537

CUMMINS
Trigg & Wedd
3 Umlauf Street
P: (08) 8676 2105 Fax: (08) 8676 2303

CRYSTAL BROOK
Crouch Rural Pty. Ltd
26 Brandis Street
P: (08) 8636 2257 Fax: (08) 8636 2088

GAWLER
Steinborner Holden
Cnr Murray & Bridge Sts
P: (08) 8522 4222 Fax: (08) 8522 4898

KADINA
J.H. Rosewarne Pty Ltd
Graves Street
P: (08) 8821 1111 Fax: (08) 8821 1686

KEITH
Farmers Centre
McBain Street
P: (08) 8755 3222 Fax: (08) 8755 3211

KIMBA
R.J. Flavel Mechanical Repairs
30 High Street
P: (08) 8627 2555 Fax: (08) 8627 2044

KINGSTON
Lecornu's Service Garage
Agnes Street
P: (08) 8767 2424 Fax: (08) 8767 2533

LOXTON
Flight Motors Pty Ltd
Bookpurnong Terrace
P: (08) 8584 7277 Fax: (08) 8584 5937

MINLATON
Southway
9 Fifth Street
P: (08) 8853 2322 Fax: (08) 8853 2451

MAITLAND
Maitland Motors Pty Ltd
58 Robert Street
P: (08) 8832 2601 Fax: (08) 8832 2673

MENINGIE
Peter Hood Holden
Cnr Princes Highway & Coonalpyn Road
P: (08) 8575 1109 Fax: (08) 8575 1537

MT. BARKER
Gilbert Motors
57 Adelaide Road
P: (08) 8391 1500 Fax: (08) 8398 2124

MT. GAMBIER
O.G. Roberts & Co
Jubilee Highway West
P: (08) 8725 6788 Fax: (08) 8723 0636

MURRAY BRIDGE
Dutton Motors Pty Ltd
7 Adelaide Road
P: (08) 8532 1999 Fax: (08) 8531 0599

NARACOORTE
Kingcraig Motors Pty Ltd
158~164 Smith Street
P: (08) 8762 1555 Fax: (08) 8762 1806

PORT AUGUSTA
Augusta Motor Company Pty Ltd
38 Stirling Road
P: (08) 8641 0488 Fax: (08) 8642 4300

PORT LINCOLN
City Motors
King Street
P: (08) 8682 1100 Fax: (08) 8682 4734

PORT PIRIE
Spencer Holden
50 Ellen Street
P: (08) 8632 3888 Fax: (08) 8632 6405

RENMARK
Rosenthal Motors Pty Ltd
Ral Ral Avenue
P: (08) 8586 6626 Fax: (08) 8586 4040

AUSTRALIAN HOLDEN DEALERS cont.

ROXBY DOWNS
Hayes Augusta Motors
10 Gosse Street
P: (08) 8671 0100 Fax: (08) 8671 0950

STRATHALBYN
Gilbert Holden Strathalbyn
High Street
P: (08) 8536 2066 Fax: (08) 8536 2672

TANUNDA
Hage & Co Pty Ltd
50 Murray Street
P: (08) 8563 2123 Fax: (08) 8563 3488

VICTOR HARBOR
Southern Motors Holden
5 Victoria Street
P: (08) 8552 1255 Fax: (08) 8552 2788

WAIKERIE
Riverside Holden
6 Crush Terrace
P: (08) 8541 2900 Fax: (08) 8541 3325

WHYALLA
McLeods Whyalla Motor Company
64 Essington Lewis Avenue
P: (08) 8645 7388 Fax: (08) 8645 5512

YANKALILLA
Martin Motors Pty Ltd
Main Street
P: (08) 8558 2052 Fax: (08) 8558 2911

YORKETOWN
Southway Holden
7 Minalaton Road
P: (08) 8852 1322 Fax: (08) 8852 1271

W.A. Metropolitan

CANNINGTON
Brian Gardner Holden
1308~1324 Albany Hwy
P: (08) 9356 9000 Fax: (08) 9458 9144

FREMANTLE
Shacks Holden
64 Queen Victoria Street
P: (08) 9432 9432 Fax: (08) 9432 9456

GOSNELLS
Gibbons Holden
2325 Albany Highway
P: (08) 9398 2211 Fax: (08) 9398 5683

MELVILLE
Melville Holden
532~540 Canning Highway
P: (08) 9333 5333 Fax: (08) 9333 5300

MIDLAND
Goldy Holden
161 Great Eastern Highway
P: (08) 9274 8000 Fax: (08) 9274 6042

MORLEY
Metro Motors Holden
212 Walter Road West
P: (08) 9449 3522 Fax: (08) 9449 3596

NAVAL BASE
Shacks Cockburn
15 Rockingham Road
P: (08) 9410 1433 Fax: (08) 9410 2331

OSBORNE PARK
North City Holden
Cnr Scarborough Beach Rd & Harborne St
P: (08) 9273 2222 Fax: (08) 9273 2220

PERTH
City Motors
505 Newcastle Street
P: (08) 9422 7777 Fax: (08) 9422 7630

VICTORIA PARK
Youngs Holden
529 Albany Highway
P: (08) 9449 9449 Fax: (08) 9449 9494

WANNEROO
Phoenix Holden
5 Berriman Drive
P: (08) 9409 9200 Fax: (08) 9309 2140

W.A. Country

ALBANY
Mark Loveridge Holden
92~98 Earl Street
P: (08) 9842 8000 Fax: (08) 9841 8623

BRIDGETOWN
Kordics Bridgetown
Hampton Street
P: (08) 9761 1377 Fax: (08) 9761 2151

BROOKTON
Coote Motors
1 Robinson Road
P: (08) 9642 1108 Fax: (08) 9642 1003

BROOME
Norwest Holden
7 McPherson Street
P: (08) 9192 1277 Fax: (08) 9192 2230

BUNBURY
Bunbury Holden
3 Sandridge Road
P: (08) 9791 3899 Fax: (08) 9791 2990

BUSSELTON
Fennessy's
4~8 Bussel Hwy
P: (08) 9752 1577 Fax: (08) 9752 4080

CARNAMAH
T & H Walton Stores Pty Ltd
Robertson Street
P: (08) 9951 1130 Fax: (08) 9951 1082

AUSTRALIAN HOLDEN DEALERS cont.

CARNARVON
North West Autos
175 Robinson Street
P: (08) 9941 1159 Fax: (08) 9941 1363

COLLIE
Station Motors
102 Throssell Street
P: (08) 9734 1855 Fax: (08) 9734 1913

CORRIGIN
Aquip Machinery
Kunjin Road
P:(08) 9063 2463 Fax: (08) 9063 2537

ESPERANCE
Dempster Holden
Norseman Road
P: (08) 9071 1155 Fax: (08) 9071 3799

GERALDTON
Young Motors
34 Cathedral Avenue
P: (08) 9921 1088 Fax: (08) 9964 1157

GNOWANGERUP
Umtali Nominees Pty Ltd
10 Youngenup Road
P: (08) 9827 1207 Fax: (08) 9827 1444

HARVEY
Stockman Holden
111 Uduc Road
P: (08) 9729 3333 Fax: (08) 9729 3221

KALGOORLIE
Golden City Holden
114 Boulder Road
P: (08) 9021 1699 Fax: (08) 9021 5737

KARRATHA
Moxham Motors
Lot 4551 Balmoral Road
P: (08) 9144 1225 Fax: (08) 9144 1258

KATANNING
Edwards Holden
159 Clive Street
P: (08) 9821 2388 Fax: (08) 9821 2429

KELLERBERRIN
Dowding Motors
1 Mitchell Street
P: (08) 9045 4141 Fax: (08) 9045 4466

KUNUNURRA
Elgee Holden
231 Bloodwood Drive
P: (08) 9168 2236 Fax: (08) 9169 1124

MANDURAH
Mandurah Holden
53 Pinjarra Rd
P: (08) 9535 8777 Fax: (08) 9535 8822

MANJIMUP
Manjimup Automotive Services
Pritchard Street
P: (08) 9771 1388 Fax: (08) 9777 1214

MERREDIN
Carson’s of Merredin
112 Barrack Street
P: (08) 9041 1444 Fax: (08) 9041 1765

MOORA
Frank Lewis Holden
92 Gardiner Street
P: (08) 9651 1408 Fax: (08) 9651 1724

NAREMBEEN
Aquip Machinery
20 Churchill Avenue
P: (08) 9064 7214 Fax: (08) 9064 7065

NARROGIN
Marley White & Co
126 Federal Street
P: (08) 9881 4777 Fax: (08) 9881 4707

NORTHAM
Withnell Motors
58 Fitzgerald Street
P: (08) 9622 1188 Fax: (08) 9622 3664

PORT HEDLAND
Moxham Motors
15 Anderson Street
P:(08) 9173 3660 Fax: (08) 9144 1258

WAGIN
Marley White & Co
63 Tudor Street
P: (08) 9861 1055 Fax: (08) 9861 1657

NEW ZEALAND HOLDEN DEALERS

Auckland Metropolitan

HENDERSON
West City Holden
435 Great North Road
P: (09) 836 0097 Fax: (09) 837 5291

MANUKAU
Davie Motors Limited
58 Cavendish Drive
P: (09) 262 1012 Fax: (09) 262 1011

NEWMARKET
Schofield & Co. Limited
50 Great South Road
P: (09) 520 6369 Fax: (09) 524 1500

PANMURE
Moyes Motor Group Limited
510 Ellerslie/Panmure Highway
P: (09) 527 1200 Fax: (09) 527 8314

TAKAPUNA
Giltrap Holden
Wairau Road
P: (09) 444 8114 Fax: (09) 444 8008

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ALEXANDRA
Currie Motors
65 Centennial Avenue
P: (03) 448 6989 Fax: (03) 448 9384

AMBERLEY
Arthur Burke Limited
Markham Street
P: (03) 314 8121 Fax: (03) 314 8281

ASHBURTON
Smallbone Brothers Limited
Cnr. Burnett & Cass Streets
P: (03) 308 7159 Fax: (03) 308 5551

BLENHEIM
Wadsco Motors Limited
55-59 Scott Street
P: (03) 578 5199 Fax: (03) 578 2572

CHRISTCHURCH
Blackwell Motors Limited
Cnr. Cashell/Madras Streets
P: (03) 379 5500 Fax: (03) 366 4683

DUNEDIN
Cooke Howlison Limited
484 Andersons Bay Road
P: (03) 456 0570 Fax: (03) 455 5668

DARGAVILLE
Marcel Motors Limited
34 Victoria Street
P: (09) 439 7399 Fax: (09) 439 7399

GISBORNE
Enterprise Cars (1992) Limited
323 Gladstone Street
P: (06) 867 8368 Fax: (06) 867 1280

HAMILTON
Ebbett Waikato Limited
Anglesea Street
P: (07) 838 0949 Fax: (07) 838 3380

HASTINGS
Karamu Holden
Cnr. Karamu Road & Albert Street
P: (06) 876 6700 Fax: (06) 876 6664

HAWERA
Moller Johnson Motors (Hawera) Limited
39-49 Regent Street
P: (06) 278 7166 Fax: (06) 278 5054

INVERCARGILL
GWD-Russells Limited
22 Yarrow Street
P: (03) 218 2149 Fax: (03) 218 3309

KAIKOHE
Bay Motors Limited
Wihongi Street
P: (09) 401 1860 Fax: (09) 401 0883

KAITAIA
Jim Crene Motors Limited
Melba Street
P: (09) 408 1310 Fax: (09) 408 1311

LEVIN
Horowhenua Motor Co. Limited
1-11 Exeter Street
P: (06) 368 7169 Fax: (06) 368 8536

LOWER HUTT
Brendan Foot Motors Limited
16-18 Railway Avenue
P: (04) 587 0005 Fax: (04) 566 2311

MASTERTON
Wagg & Harcombe Limited
87-93 Dixon Street
P: (06) 377 5169 Fax: (06) 378 8840

MATAMATA
Matamata Motor Group Limited
2 Arawa Street
P: (07) 888 7059 Fax: (07) 888 5709

MORRINSVILLE
Nicholson United Autos
Thames Street
P: (07) 889 7042 Fax: (07) 889 3529

NAPIER
Karamu Holden
Cnr Wellesley Rd & Thakeray St
P: (06) 874 3033 Fax: (06) 834 1454

NEW ZEALAND HOLDEN DEALERS cont.

NELSON
Nelson Bays Holden
2 Selwyn Place
P: (03) 545 7222 Fax: (03) 545 6057

NEW PLYMOUTH
Auto City
86 Molesworth Street
P: (06) 758 0919 Fax: (06) 758 5330

OAMARU
North Otago Motor Group Limited
24-30 Severn Street
P: (03) 434 5099 Fax: (03) 434 9983

OTOROHANGA
Pat Prescott Limited
205 Maniapoto Street
P: (07) 873 7119 Fax: (07) 873 7156

PAEROA
Linn Motors Limited
10-12 Belmont Road
P: (07) 862 8715 Fax: (07) 862 8711

PAHIATUA
Jones Motors Limited
34 Main Street
P: (06) 376 7524 Fax: (06) 376 7192

PALMERSTON NORTH
Robertson Motors
200 Rangitikei Street
P: (06) 358 1062 Fax: (06) 359 0303

PARAPARAUMU
Guy Weaver's Auto Village
Main Road
P: (04) 298 8089 Fax: (04) 298 7186

PUKEKOHE
Counties Motorcourt Limited
Cnr. Edinburgh & Tobin Streets
P: (09) 238 3259 Fax: (09) 238 3298

ROTORUA
Shorland Slater Limited
Old Taupo Road
P: (07) 348 3179 Fax: (07) 347 1503

STRATFORD
Ansford Johnson Limited
369 Broadway
P: (06) 765 6119 Fax: (06) 765 7410

TAUPO
Taupo Holden
Ruapehu Street
P: (07) 378 4130 Fax: (07) 378 0357

TAUMARANUI
Turaki Motors Limited
Hakiaha Street
P: (07) 895 7009 Fax: (07) 895 8909

TAURANGA
Ebbett Tauranga
Cnr. Wharf Street & Cameron Road
P: (07) 578 2843 Fax: (07) 578 6044

TE AROHA
Summit Motor Co. Limited
Kenrick Street
P: (07) 884 8174 Fax: (07) 884 8133

TE AWAMUTU
Rosetown Motors Limited
Cnr. Churchill & Mahoe Streets
P: (07) 871 5143 Fax: (07) 871 5045

TE PUKE
Bob Batchelor Motors Limited
Jellicoe Street
P: (07) 573 9781 Fax: (07) 573 6057

THAMES
Linn Motors
429 Pollen Street
P: (07) 868 9591 Fax: (07) 868 9595

TIMARU
Hervey Motors Limited
6 Sefton Street
P: (03) 684 7179 Fax: (03) 684 7176

UPPER HUTT
Twin Lakes Motor Company
Fergusson Drive
P: (04) 528 5609 Fax: (04) 527 8390

WANGANUI
Bob Burgess Motors Limited
1 Purnell Street
P: (06) 345 5588 Fax: (06) 345 5584

WELLINGTON
Williams & Adams
72-82 Taranaki Street
P: (04) 801 6777 Fax: (04) 385 7437

WHAKATANE
Harts Limited
Commerce Street
P: (07) 308 6334 Fax: (07) 307 1536

WHANGAREI
Mark Cromie Holden
5-13 Hannah Street
P: (09) 438 3199 Fax: (09) 438 2646

CHAPTER 10

Loading

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10-2 Loading the car
10-3 Towing

LOADING THE CAR

Overloading is a safety hazard and could also shorten the life of your car or its parts.

Carrying capacity

The recommended carrying capacity of your car is:

425 kg (including 5 occupants and luggage).

If you load your car other than to the above recommendations then you should ensure that the MAXIMUM REAR AXLE LOAD and the GROSS VEHICLE WEIGHT are not exceeded.

Curb weight

The curb weights shown below include the weight of a 68 kg driver, 7 kg of luggage and the fuel tank filled to 90% capacity:

1098 kg = curb weight for 2 door model, manual transmission

1111 kg = curb weight for 2 door model, automatic transmission

1033 kg = curb weight for 4 door model, manual transmission

1053 kg = curb weight for 4 door model, automatic transmission

Add 25 kg if car is fitted with air conditioning.

(G.V.M.) Gross vehicle mass (weight)

The Gross Vehicle Weight is the maximum that a car is allowed to weigh when fully loaded. This must include any luggage, passengers, roof rack load and a full tank of fuel. The maximum, allowable weight for your car is:

1550 kg = G.V.M. for 2 and 4 door models with manual transmission

1570 kg = G.V.M. for 2 and 4 door models with automatic transmission

Maximum rear axle load

The maximum allowable rear axle load for your car is:

760 kg = 2 door and 4 door models.

Roof rack loads

For safety reasons and to avoid damaging the roof, only the roof rack approved by Holden for your car, should be used. The maximum allowable roof load is 100 kg (including the weight of the roof rack).

Roof rack loads alter the handling of a car, due to a change in the centre of gravity. When carrying loads on the roof rack, avoid abrupt swerving or sharp steering. The load should be evenly distributed and you should not drive faster than 120 km/h.

The weight on the roof rack must be included when working out the maximum car load (G.V.M.). The roof rack load should be treated as luggage.

TOWING

Your Barina is designed as a passenger car. It is not designed or intended to be used to tow a trailer or caravan. Towing may affect handling, durability and economy.

CHAPTER 11

Cleaning

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11-2 Vinyl (P.V.C.) fabrics
11-3 Cloth fabrics
11-3 Carpet
11-3 Seat belts
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EXTERIOR CLEANING

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INTERIOR CLEANING

CAUTION:

Many cleaners may be toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as: acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, gasoline or naphtha for any cleaning purpose. Be sure the car is well ventilated while using any cleaners and always follow the cleaning manufacturer's recommendations.

Care and cleaning of upholstery

Dust and dirt which accumulate on upholstery should be removed every few weeks - more often with constant driving. This can be done readily with a vacuum cleaner. Before attempting to remove spots and stains, it is necessary to determine as accurately as possible:

- The type of fabric.
- The nature and age of the stain.
- The effect of the stain removal agent upon the colour, structure and general appearance of the upholstery.

It is essential that stains be removed as soon as possible after they have been made. If they are allowed to remain on the fabric for any length of time they very often become oxidised or set, and removal becomes difficult, if not impossible.

Cleaning P.V.C. coated fabrics

Vinyl (P.V.C.) coated fabrics are used for seating, head linings and auxiliary trimming. The grades used vary according to their function. P.V.C. fabrics are generally made by coating fabric with synthetic resins. Care of P.V.C. fabrics is a relatively simple but important matter. The surface should be wiped over with a dry cloth during the regular cleaning of the car.

Should dirt accumulate and become embedded in the material pattern, the following procedure is recommended.

1. Using lukewarm water and soap, or Holden Velour Fabric and Vinyl Cleaner, work up thick suds on a piece of cheesecloth, and apply to the surface. A soft bristle brush can be used to remove stubborn stains or dirt embedded in the grain of the material.
2. Repeat using only a damp cloth and no soap.
3. Wipe dry with a soft cloth. The above cleaning instructions also apply to the rubber floor mats.

INTERIOR CLEANING cont.

Cleaning cloth trim

Where the seats in your car are upholstered with cloth, the following instructions should be observed.

- Most loose dirt and dust can be removed by a vacuum cleaner or soft brush.
- DO NOT use a whisk broom or a coarse hair brush.
- If normal soiling should take place it is recommended that the fabric be sponged lightly with warm water containing a detergent and a small amount of ammonia. The fabric should then be rubbed lightly, and if necessary, sponged again to remove anything stubborn. Soak up excess fluid with a dry cloth. Holden Velour Fabric and Vinyl Cleaner may be used sparingly.

Cars with air bags

Use only a dry cloth or mild cleaner to clean the steering wheel and instrument panel. Do not use any aggressive cleaning agents.

Cleaning carpet

Thoroughly brush or vacuum the carpet. In many instances the carpet may require no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using Holden Velour Fabric and Vinyl Cleaner, clean approximately one square foot at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner.

Cleaning seat belts

Cleaning of seat belts can be carried out by using a mild non-abrasive soap and lukewarm water. After washing be sure to thoroughly sponge the washing solution out of the belts.

CAUTION:

Do not bleach or dye seat belts since this may severely weaken them.

Cleaning interior glass

The interior glass area of the car should be cleaned using Holden Glass Cleaner with a clean soft cloth. Care must be taken when cleaning inside the rear window so as not to damage the demister.

Never use abrasive cleaners on any car glass, as they may cause scratches.

CARING FOR PAINT

To help preserve that shiny new car finish, special attention should be given to correctly treating those conditions that can damage the paint.

Road bloom: If, over a long period of time, oils, dirt, exhaust and other pollutants are allowed to build up, they may combine to affect the paint finish.

Etching: Tree sap, bird droppings, salt water and other natural deposits can, if allowed to stay on the paint, leave an etching or scarring.

Pitting: Tar spots and some industrial fallout can react chemically and may cause pitting to the surface of the paint.

Paint inspection

Regular inspection of the car should be made for scratch marks, cracks or damaged areas, all of which could develop rust. Any deep scratches, cracks or break-down in the finish should be repaired without delay. Care should be taken to ensure that any rusting is counteracted immediately, otherwise rust “creep” will extend beyond the damaged area, particularly in tropical or coastal areas, where the moist, or salt-laden air accelerates rusting. The paint finish of the car gives a very high degree of protection against the weather, but it should be realised that wear and deterioration occur when the car is exposed to elements for prolonged periods. The car therefore should be garaged whenever possible.

To prevent damage of the paint surface, foreign matter should always be removed as soon as possible. **Due to the acidity, it is recommended that foreign matter such as bird droppings be removed within 24 hours.**

The way the paint keeps its condition over time can be assisted by you. The easiest way to keep that paint looking bright and shiny is to keep it clean. A wash once a week will do wonders. However, it must be done correctly.

Washing your car

1. Never use an automatic wash that has anything that touches the paint other than water.
2. Wash your car once a week to remove any build up of road grime that may have been deposited on your paint.
3. Find a cool, shady spot to wash it. Don't ever wash it in direct sunlight.
4. Hose the car down from top to bottom with lots of cold water. This removes any grit or other loose particles and substances. Don't use a sponge or cloth yet.
5. Fill a bucket with lukewarm water and add no more than 2 capfuls of gentle detergent. Do not use hot water, strong soap or chemical detergents.
6. To remove bird droppings, soak with a wet sponge for several minutes before washing off. If still persistent, use a solution of 1 litre of water and 110 grams of dissolved baking soda (Bicarbonate of Soda). Flush the washed parts with clean water.
7. Starting with the roof, use a clean sponge to clean a small section at a time. Do not allow liquid to dry before rinsing off that section with clean water. When you have completed each section, rinse the whole car again with cold water.
8. Dry the clean car thoroughly with a good quality Chamois.

CARING FOR PAINTcont.

CAUTION: Care should be taken when moving the car after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

Removing stains such as grease, oil and tar spots

Just washing you car regularly means that most of the harmful substances deposited on the paint will be removed before they can cause permanent damage. However, some substances are not easy to remove. So if you notice stains on the paint, make sure that you remove them at the earliest possible opportunity.

Grease and oil, and even tar if it's fresh, can be removed from the paint with a little kerosene or turpentine. As a precaution against staining, wash and polish the area as soon as possible after the stain has been removed.

A rubbing or cutting compound can be used after a normal wash. But this should never be done on a regular basis because it removes paint.

Warnings:

- Some chemical cleaners used for removing road oils and tars from painted surfaces have been found to be detrimental to automotive paint.
- If petrol is spilt on the paint when refilling, flush off immediately with clean water, as petrol has a tendency to stain or soften new paint finish during the weathering out period, particularly when the car is exposed to high temperatures.
- Petrol MUST NOT be used to clean any painted or plastic surfaces.

Ventilation system intake

The intake area between the bonnet and windscreen may collect leaves, which will impair air flow into the car.

It is recommended that this area be cleared of debris whenever you wash your car.

Under car washing

Your car has a factory-applied P.V.C. undercoating in the wheel arches (including longitudinal members) which provides permanent protection and needs no special maintenance. The surfaces of the car underside not covered by P.V.C. are provided with a durable protective wax coating. Once a year, preferably before the start of the cold season the wax coating and P.V.C. coating should be checked and if necessary, restored to perfect condition. Commercial bitumen and rubber materials can damage P.V.C. coating. Have all work on the underbody performed by a Holden Dealer, as it requires knowledge of the specified materials and experience concerning their application.

The underbody should be washed following the end of the cold weather season to remove any dirt adhering to the underbody, since this may also contain salt.

PAINT POLISHING, WHEELS AND TYRES

Polishing

Under normal circumstances the paint doesn't need polishing to retain its shine. A weekly wash is sufficient. However, the use of a Polymer Glaze about every 3 months will reduce the effects of road bloom by removing natural contaminants which can build up on the paint.

DO NOT ATTEMPT TO APPLY A POLISH WITHOUT FIRST WASHING TO REMOVE LOOSE GRIT, SURFACE DIRT, DUST OR GREASE ETC.

Tyres

Sponging with cold water is all that is necessary for normal cleaning. Oil and grease should be removed with soap and water or detergent. For tar or other substances, a mild abrasive, such as mechanic’s hand soap or kitchen cleaning powder, may be used if necessary. Thoroughly wash the tyres with water to finish. Petrol must not be used for cleaning tyres.

New tyre look can be restored using Holden Tyre and Bumper Shine.

Alloy wheels (if fitted)

To preserve the original appearance of alloy wheels, keep them clean and free from build up of road dirt. Holden Wheel Cleaner can be used for cleaning alloy wheels. Do not use abrasive cleaners on alloy wheels.

EXTERIOR GLASS CLEANING

Glass cleaning - general

Special care should be taken to avoid scratching the glass. If it is cleaned at the same time as the rest of the car, there is a possibility that particles of grit will cause fine scratches. Flush off any mud on the glass when washing the body, but leave the final cleaning and polishing until afterwards. Use Holden Glass Cleaner and wash each section of glass in turn, making sure that the water, its container and the sponge are quite clean and free from grit. Clean old linen cloth is better than new material for polishing glass.

Windscreen

It is important that the windscreen be kept clean so that the wiper blades may be as effective as possible. Old wiper blades can cause windscreen scratching and so should be regularly inspected and replaced.

Abrasive cleaners should never be used to clean glass as they can cause scratches, impairing night vision. After the windscreen has been cleaned with a wet sponge it should be wiped over with a soft, lint free cloth or chamois.

It is recommended that Holden Optikleen be added to the windscreen washer reservoir.

Wiper blades

Oil and road scum thrown up on the windscreen will cause smearing when the wipers are switched on, when the dirt is transferred onto the wiper blades. Many owners, whilst they methodically clean the windscreen glass, omit to clean the wiper blades and consequently smearing of the glass reappears immediately the wiper blades are used. The blades can be cleaned by lifting them off the windscreen and cleaning with Holden Optikleen and a clean cloth.

DO NOT OPERATE THE WIPER BLADES BY HAND AS THIS MAY DAMAGE THE WIPER DRIVE MECHANISM

If the wiper blades are used to clean dust and dirt from the windscreen in dry conditions always use the washer system first to wet the windscreen. Ensure that the windscreen washer reservoir is not empty.

Should the wiper blades be frozen to the windscreen, they must be lifted off and freed by hand before switching on the wipers.

CLEANING PRODUCTS

HOLDEN PART NUMBER	SIZE	DESCRIPTION	USAGE
92141386	500 ml	Polymer glaze polish	Seals in a deep, lustrous glazed finish. Long life protection from oxidation, salt and weather damage.
M38424	400 g	Velour fabric and vinyl cleaner	Cleans and deodorises velour, most vinyl upholstery, hood linings, mats and carpets.
M40383	350 g	Tyre and bumper shine	Restores tyres and bumpers to as-new finish.
92141182	350 g	Glass cleaner	Cleans all glass surfaces.
92141392		Chamois	
92140005	500 ml	Optikleen	Windscreen washer solvent.
92140004	5 ml	Optikleen sachet	Windscreen washer solvent; 1 sachet per washer bottle refill.
M40500	300 g	Bug, tar and spot remover	Quickly dissolves and removes tar, grease, oil, bug and other stubborn stains from your car's exterior.
92141395	750 ml	Wheel cleaner	Wheel cleaner, including alloy wheels
M37223	400 g	Degreaser	Removes oil and grease from engines

CHAPTER 12

Servicing

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12-4 Extreme operating conditions
12-6 Maintenance schedule
12-8 Service times
12-9 Service coupons

SERVICE INTERVALS

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your vehicle. Your Dealer invites you to return for all your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians at Holden Dealers.

Therefore, it is in the owner's interest that the following services are performed at the specified Distance or Months (whichever occurs first).

1,500 km	- 1 month inspection
15,000 km	- 1 year
30,000 km	- 2 years
45,000 km	- 3 years
60,000 km	- 4 years
75,000 km	- 5 years
90,000 km	- 6 years
105,000 km	- 7 years
120,000 km	- 8 years
135,000 km	- 9 years
150,000 km	- 10 years
165,000 km	- 11 years
180,000 km	- 12 years

The one month (1,500 kilometres) inspection will be performed without cost for labour by the Selling Dealer.

This service may be carried out by another Holden Dealer provided you have a letter of Introduction from the Selling Dealer.

Your Dealer will supply the necessary letter of Introduction upon request.

The services shown in this schedule between 15,000 km and 180,000 km are to be performed after 180,000 km at the same intervals.

NOTE: All maintenance services as listed in this Handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the New Vehicle Warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to drive belts, transmission, clutch, park brake, etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

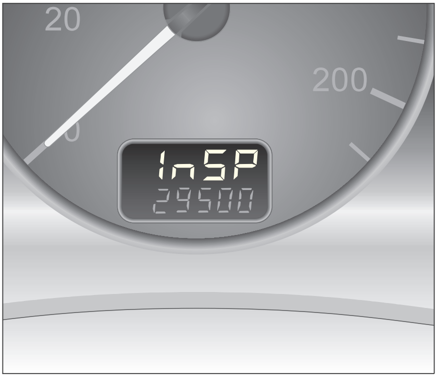
Damage caused by failure to have proper maintenance services carried out by an authorised Holden Dealer or authorised Service Outlet, or in accordance with Holden's specifications, may void your New Vehicle Warranty. It is strongly recommended that you read the "New Vehicle Warranty" in Chapter 9 so that you are aware of your Warranty exclusions.

Service coupons are provided further on in this chapter. When each service is performed the coupon is removed so that the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should check that the service has been validated, by the Dealer stamping and signing the coupon stub. This is important as it will not only assist in the determination of Warranty Claims, but will enhance the value of the car when selling.

SERVICE LIGHT

A small window in the speedometer is used for the odometer, tripmeter and the service reminder.



The service reminder will show "InSP" (inspection required) for a few seconds when the ignition is turned ON if the car is within 500 km or one week of the next service.

Note that the service reminder light is not designed to show for the first 1,500 km/ 1 month service.

When the car is taken in for service, your Dealer will reset the reminder.

The service reminder can also be reset by the driver as follows:

- Ignition off.
- Depress and hold down the reset button while turning on the ignition. Keep the reset button held down (for approx. 2 more seconds) until the flashing "InSP" display changes to " - - - - ".
- Release the reset button.
- The odometer and tripmeter will then reappear.

EXTREME OPERATING CONDITIONS

If your vehicle operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

NOTE: The extra services listed below need only be used if your vehicle operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis e.g. holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1,000 km under any of the extreme conditions, then this could qualify for additional services.

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Dealer.

Change automatic transmission fluid @ 60,000 km or 4 years (whichever comes first)	A	B	C
Replace engine oil and filter @ 5,000 km or 3 months (whichever comes first)	A		
Air cleaner element - replace @ 30,000 km or 2 years (whichever comes first)			C
Pollen filter - replace @ 15,000 km or 1 year (whichever comes first)			C
Fuel filter - replace @ 30,000 km or 2 years (whichever comes first)			C

A =	Stop-start driving, excessive idling or low speed operation as experienced in inner city driving e.g. taxi, police, door to door delivery.
B =	Caravan or trailer towing.
C =	Extreme climates, such as high air pollution, air borne sand, dust, high altitude or major fluctuations in temperature.

EXTREME OPERATING CONDITIONS

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date .... km ....
Items performed: ....
....
....
....
Servicing
Dealer ....

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date .... km ....
Items performed: ....
....
....
....
Servicing
Dealer ....

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date .... km ....
Items performed: ....
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Servicing
Dealer ....

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date .... km ....
Items performed: ....
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Servicing
Dealer ....

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date .... km ....
Items performed: ....
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Servicing
Dealer ....

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date .... km ....
Items performed: ....
....
....
....
Servicing
Dealer ....

MAINTENANCE SCHEDULE

Use odometer reading or years, whichever occurs first	x 1,000 km	1.5	15	30	45	60	75	90	105	120	135	150	165	180
	or years	1/12	1	2	3	4	5	6	7	8	9	10	11	12
SERVICE ITEMS														
COOLANT - check level, check coolant %		1/12	1	2	3	4		6	7	8	9		11	12
COOLANT - replace							5					10		
DRIVE BELTS - check			1	2	3	4	5	6	7	8	9	10	11	12
ENGINE TOOTHED BELT and TENSIONER ASSEMBLY- replace						4				8				12
IDLER PULLEYS - inspect						4								12
IDLER PULLEYS - replace										8				
AIR CLEANER paper element - replace						4				8				12
SPARK PLUGS - replace						4				8				12
FUEL FILTER - replace				2		4		6		8		10		12
ENGINE OIL AND FILTER - replace			1	2	3	4	5	6	7	8	9	10	11	12
AUTO TRANS - check fluid level				2		4		6		8		10		12
AUTO TRANS - fluid change				Fluid not changed for life of car, unless operating in extreme conditions.										
LEAKAGE - visual check of engine and transmission		1/12	1	2	3	4	5	6	7	8	9	10	11	12
LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check		1/12	1	2	3	4	5	6	7	8	9	10	11	12
WINDSCREEN WIPE/WASH system check fluid level and blade condition		1/12	1	2	3	4	5	6	7	8	9	10	11	12
DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate			1	2	3	4	5	6	7	8	9	10	11	12

MAINTENANCE SCHEDULE cont.

Use odometer reading or years, whichever occurs first	x 1,000 km	1.5	15	30	45	60	75	90	105	120	135	150	165	180
	or years	1/12	1	2	3	4	5	6	7	8	9	10	11	12
SERVICE ITEMS														
HEADLIGHT ADJUSTMENT - check			1	2	3	4	5	6	7	8	9	10	11	12
BODY/UNDERBODY - check corrosion protection		1/12	1	2	3	4	5	6	7	8	9	10	11	12
BRAKES - check pad thickness			1	2	3	4	5	6	7	8	9	10	11	12
BRAKES, PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check		1/12	1	2	3	4	5	6	7	8	9	10	11	12
RUBBER BOOTS - check		1/12	1	2	3	4	5	6	7	8	9	10	11	12
WHEELS - check wheel nut torque, tyre condition and tyre pressure		1/12	1	2	3	4	5	6	7	8	9	10	11	12
BRAKE AND CLUTCH FLUID - change				Change every 2 years (regardless of km)										
BRAKE FLUID LEVEL - check			1	2	3	4	5	6	7	8	9	10	11	12
POLLEN FILTER (if fitted) - replace				2		4		6		8		10		12
REMOTE CONTROL BATTERY - replace				2		4		6		8		10		12
ROAD TEST and reset service due light		1/12	1	2	3	4	5	6	7	8	9	10	11	12
SERVICE LABOUR														
TIMES		-	1.1	1.6	1.5	3.2	1.8	1.6	1.5	3.2	1.5	1.9	1.5	3.2

SERVICE TIMES

The owner will be charged for all lubricants and materials used plus labour at the times recommended on the coupon.

The repair or replacement of any part found faulty during a service check and not covered by Holden Warranty will be added to the charges.

Where any deficiencies are noted, such items should be reported to the owner/operator so that the extra work required can be authorised.

The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may indeed be harmful to your vehicle.

1,500km or 1 month INSPECTION

Holden invites the new owner of this car to return to the selling Dealer for a free service inspection at 1,500 km.

Owner's Name
Mr.
Mrs. ....
Miss.
Other............

Address ....
Town ....
State .... Postcode ....
Reg. no. .... Engine no ....
I.S.O.V.I.N. .... Model ....
Odometer reading .... Date of Acquisition ....
Selling Dealer's Stamp & Signature ....

This car has been thoroughly checked in accordance with the items on the reverse side of this voucher.

This inspection is provided free of charge.

Servicing Dealer's Stamp & Signature

Servicing Dealer ....
Town .... State ....

Owner's signature ....

1,500 km or 1 month Inspection Validation

This car has been thoroughly checked in accordance with the 1,500 km/one month inspection.

Dealer ....

Service Manager's signature ....

Date .... Odometer reading ....

- ☐ COOLANT - check fluid level, check coolant %
- ☐ ENGINE OIL - check level
- ☐ WASHER - check fluid level
- ☐ BRAKE AND CLUTCH FLUID - check fluid level
- ☐ LEAKAGE - visual check of engine and trans
- ☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ☐ BODY/UNDERBODY - check corrosion protection
- ☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ☐ RUBBER BOOTS - check
- ☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ☐ ROAD TEST AND RESET SERVICE DUE LIGHT

15,000 km or
1 year
Service
Validation

Servicing Dealer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

15,000 km or 1 year

SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....
....
....

Signature ....

Date ....

☐ COOLANT - replace coolant

☐ DRIVE BELTS - check

☐ ENGINE OIL AND FILTER - replace

☐ LEAKAGE - visual check of engine and trans.

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

30,000 km or 2 years

SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.6 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....

....

....

Signature ....

Date ....

30,000 km or 2 year Service Validation

Servicing Dealer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

- ☐ COOLANT - check level, check coolant %
- ☐ POLLEN FILTER (if fitted) - replace
- ☐ DRIVE BELTS - check
- ☐ FUEL FILTER - replace
- ☐ ENGINE OIL AND FILTER - replace
- ☐ AUTO TRANS - check fluid level.
- ☐ LEAKAGE - visual check of engine and trans
- ☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ☐ HEADLIGHT ADJUSTMENT - check
- ☐ BODY/UNDERBODY - check corrosion protection
- ☐ BRAKES - check pad thickness
- ☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ☐ RUBBER BOOTS - check
- ☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ☐ BRAKE FLUID LEVEL - check
- ☐ REMOTE CONTROL BATTERY - replace
- ☐ ROAD TEST AND RESET SERVICE DUE LIGHT

- ☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

45,000 km or
3 years
Service
Validation

Servicing Dealer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

45,000 km or 3 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....
....
....

Signature ....

Date ....

- ☐ COOLANT - check level, check coolant %
- ☐ DRIVE BELTS - check
- ☐ ENGINE OIL AND FILTER - replace
- ☐ LEAKAGE - visual check of engine and trans
- ☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ☐ HEADLIGHT ADJUSTMENT - check
- ☐ BODY/UNDERBODY - check corrosion protection
- ☐ BRAKES - check pad thickness
- ☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ☐ RUBBER BOOTS - check
- ☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ☐ BRAKE FLUID LEVEL - check
- ☐ ROAD TEST AND RESET SERVICE DUE LIGHT

- ☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

60,000 km or
4 years
Service
Validation

Servicing Dealer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

60,000 km or 4 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 3.2 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....
....
....

Signature ....

Date ....

- ☐ COOLANT - check level, check coolant %
- ☐ POLLEN FILTER (if fitted) - replace
- ☐ DRIVE BELTS - check
- ☐ ENGINE TOOTHED BELT and TENSIONER ASSEMBLY - replace; IDLER PULLEYS inspect
- ☐ AIR CLEANER paper element - replace
- ☐ SPARK PLUGS - replace
- ☐ FUEL FILTER - replace
- ☐ ENGINE OIL AND FILTER - replace
- ☐ AUTO TRANS - check fluid level.
- ☐ LEAKAGE - visual check of engine and trans
- ☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ☐ HEADLIGHT ADJUSTMENT - check
- ☐ BODY/UNDERBODY - check corrosion protection
- ☐ BRAKES - check pad thickness
- ☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ☐ RUBBER BOOTS - check
- ☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ☐ REMOTE CONTROL BATTERY - replace
- ☐ BRAKE FLUID LEVEL - check
- ☐ ROAD TEST AND RESET SERVICE DUE LIGHT

- ☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

75,000 km or 5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.8 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....

....

....

Signature ....

Date ....

75,000 km or 5 years Service Validation

Servicing Dealer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

☐ COOLANT - replace

☐ DRIVE BELTS - check

☐ ENGINE OIL AND FILTER - replace

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

90,000 km or 6 years Service Validation

Servicing Dealer .... Additional services performed: ....

Brake fluid changed: YES/NO ....

Date of Service ....

Odometer ....

Signed ....

90,000 km
or
6 years
SERVICE
COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.6 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....

....

....

Signature ....

Date ....

- ☐ COOLANT - check level, check coolant %
- ☐ POLLEN FILTER (if fitted) - replace
- ☐ DRIVE BELTS - check
- ☐ FUEL FILTER - replace
- ☐ ENGINE OIL AND FILTER - replace
- ☐ AUTO TRANS - check fluid level.
- ☐ LEAKAGE - visual check of engine and trans
- ☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ☐ HEADLIGHT ADJUSTMENT - check
- ☐ BODY/UNDERBODY - check corrosion protection
- ☐ BRAKES - check pad thickness
- ☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ☐ RUBBER BOOTS - check
- ☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ☐ BRAKE FLUID LEVEL - check
- ☐ REMOTE CONTROL BATTERY - replace
- ☐ ROAD TEST AND RESET SERVICE DUE LIGHT

- ☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

105,000 km or 7 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....

....

....

Signature ....

Date ....

105,000 km or 7 years Service Validation

Servicing Dealer ....

Brake fluid changed: YES/NO

Date of Service ....

Odometer ....

Signed ....

Additional services performed: ....

....

....

....

....

☐ COOLANT - check level, check coolant %

☐ DRIVE BELTS - check

☐ ENGINE OIL AND FILTER - replace

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

120,000 km or 8 years Service Validation

Servicing Dealer ....

Brake fluid changed: YES/NO

Date of Service ....

Odometer ....

Signed ....

Additional services performed: ....

....

....

....

....

120,000 km or 8 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 3.2 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....

....

....

Signature ....

Date ....

☐ COOLANT - check level, check coolant %

☐ POLLEN FILTER (if fitted) - replace

☐ DRIVE BELTS - check

☐ ENGINE TOOTHED BELT, TENSIONER ASSEMBLY AND IDLER PULLEYS- replace

☐ AIR CLEANER paper element - replace

☐ SPARK PLUGS - replace

☐ FUEL FILTER - replace

☐ ENGINE OIL AND FILTER - replace

☐ AUTO TRANS - check fluid level.

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ REMOTE CONTROL BATTERY - replace

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

135,000 km or
9 years
Service
Validation

Servicing Dealer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

135,000 km or 9 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....
....
....

Signature ....

Date ....

☐ COOLANT - check level, check coolant %

☐ DRIVE BELTS - check

☐ ENGINE OIL AND FILTER - replace

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

150,000 km or 10 years Service Validation

Servicing Dealer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

150,000 km or 10 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.9 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....
....
....

Signature ....

Date ....

☐ COOLANT - replace

☐ POLLEN FILTER (if fitted) - replace

☐ DRIVE BELTS - check

☐ FUEL FILTER - replace

☐ ENGINE OIL AND FILTER - replace

☐ AUTO TRANS - check fluid level.

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ REMOTE CONTROL BATTERY - replace

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

165,000 km or 11 years Service Validation

Servicing Dealer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

165,000 km or 11 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....
....
....

Signature ....

Date ....

- ☐ COOLANT - check level, check coolant %
- ☐ DRIVE BELTS - check
- ☐ ENGINE OIL AND FILTER - replace
- ☐ LEAKAGE - visual check of engine and trans
- ☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ☐ HEADLIGHT ADJUSTMENT - check
- ☐ BODY/UNDERBODY - check corrosion protection
- ☐ BRAKES - check pad thickness
- ☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ☐ RUBBER BOOTS - check
- ☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ☐ BRAKE FLUID LEVEL - check
- ☐ ROAD TEST AND RESET SERVICE DUE LIGHT

- ☐ BRAKE AND CLUTCH FLUID - Change every 2 years (regardless of km)

180,000 km or
12 years
Service
Validation

Servicing Dealer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

180,000 km
or
12 years
SERVICE
COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 3.2 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....
....
....

Signature ....

Date ....

☐ COOLANT - check level, check coolant %

☐ POLLEN FILTER (if fitted) - replace

☐ DRIVE BELTS - check

☐ ENGINE TOOTHED BELT and TENSIONER ASSEMBLY - replace; IDLER PULLEYS - inspect

☐ AIR CLEANER paper element - replace

☐ SPARK PLUGS - replace

☐ FUEL FILTER - replace

☐ ENGINE OIL AND FILTER - replace

☐ AUTO TRANS - check fluid level.

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ REMOTE CONTROL BATTERY - replace

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

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